

Sequence Listing

09/936271

JC03 Rec'd PCT/PTO 10 SEP 2001

SEQ.ID. NO. 1

KLK-LI na

1 tatctcatga gagagaataa gaacatgaaa agagaaagaa tgagagagag
agagagaaaag
61 aaaaaggaga gtggagtcta ggatctgggc aggggtctcc tccctgggtc
cctagaccct
121 gctgccagcc ccttctgggc cccaaccac tgcttggtca gagttgaggc
agcctgagag
181 agttgagctg gaagtttgca gcacctgacc cctggaacac atccccctggg
ggcaggccag
241 cccaggctga ggatgcttat aagccccaag gaggccctg cggaggcagc
aggctggagc
301 tcagcccagc agtggaatcc aggagcccag aggtggccgg gtaagaggcc
tggtgggtccc
361 ccaactaaaag cctgcagtgt tcatgatcca actctcccta cagctccatg
tcgctggatt
421 ctcagcctct gtgccttctg tctccacatc tctctagaca gatctctcac
tgtctctagt
481 taggagtcac tgtctctagt taggggtctc tctgtctctc tgaatctata
tctccatgtc
541 taactctcag actgtctctg aggatattctc tcaagcactc tgtctctccg
gctctgattc
601 tctgtgtgtc tccctccat gcttgtttgt ggttggttag acaccatctc
tccccattca
661 cagatggcta gatgctttct ctaaactttc ctttctacct agttctctct
ctctctcttt
721 tcccatctct ctctctcttt ttctctctca gtctctaaat ctgtctctct
aggttctggg
781 tccatggatg ggagaggggg tagatggtct aggtcttgc ctacctata
acgtcccaga
841 gggaagaaag ggagggacaa agagagggat ggagagactt gggctgaaga
tccccagaca
901 cggctaagtc tcagtcctca tccccagggtg ctgacgtgat ggccacagca
ggaaatccct
961 ggggctgggt cctgggggtac ctcatccttg gtgtcgcagg tatctgagta
tgctgtgtgtg
1021 tgtctgtccg tgcttggggg cacagtgttt gttaatgttc aggtgtgact
cagtgtctc
1081 ttgcttgtga ctgcaaagct gcctgtgaga cggtagcgtg ttatccgtcc
gccatggctg
1141 tgccccgca actccttgta tcgtggtaaa tttgtgtgtg gcagtgtgcc
tgggtgtgtg
1201 gttgtacctg tgagactctg acagtttgtg cctctgaata tctgggtggag
tgacaacagt
1261 gtaatgatga tatggggaca ggggaagccg aggtgacagg agattgtgct
tcctggggcg
1321 tgatccattg ctgggaatct gtgcctgctt cctgggtctt cagtctgag
atccccctct
1381 cccatcccca aggaactcac ctcacaggac tataaaacgg tgttttgggt
tgcatgggt
1441 tgtggcttgg tgtgactgtg ggcaaggctg ggagaggata ggagtgactc
ggcgcaggac
1501 cgactctttg agcatcagtc tgcgcagaca agtgaccga tccttgctcc
cagcaacaac
1561 tccacccctt gagctttaat tcaccccgaa ggaccgcgac ctaccgctat
gagcctagac

1621 tectctgttg aacccctcct gaccgtggct ttgcaccgcg atggcaccag
tctcacctcc
1681 agagctcacc ccagagccct gactccgccc cagaagccct ggtcccacct
tctgagactg
1741 cctctagcca taaccagct cttgaagcct tgatggcgcc cctgcgctgt
aaccccaacc
1801 ctaggagcac tgatcccgcc ttctcagccc acccccatgc cctgactctc
ctccaggag
1861 ccctgactac cctgaatccc tgaccaggct cctgcaccgt gatcaccgcc
cctgggagcc
1921 ctaggcctat atcctggacc agccctgaa gctccgatca tgaccctgc
accataaccc
1981 cacccccagg agccctgggt ccgccccctg ggcccccccc cagccctgac
tcggcccccc
2041 aagagtcctg actgctcctg aagccctgac cagccccctg ctcggtaacc
cctcccccaa
2101 gagccctggg ccgcctcct gagcccgctc ccagccctga ctccgccccg
aggagccctg
2161 actgctcctg aacctctgac cagccccctg ctcggtaagc ccacccccag
gaacccctggg
2221 ccgcctcct ggtcccgatc ccacccctga ctccgcccctc aggatctctc
gtctctggta
2281 gctgcagcca aatcataaac ggcgaggact gcagcccga ctcgcagccc
tgccagggcg
2341 cactgggtcat ggaaaacgaa ttgttctgct cgggcgtcct ggtgcatccg
cagtgggtgc
2401 tgtcagccgc aactgtttc cagaagttag tgacagagga gggggagtg
gcagggcctg
2461 ggtccggggg cggggcctaa tatcaggctc atcttggggg gctcaggggg
aaacagcgg
2521 gaaggctctg ggaggaggac ggaatgagcc tggatccggg gagcccagag
ggaagggtg
2581 ggaggcgga atcttgctc ggaaggactc agagagccct gacttgaaat
ctcagcccag
2641 tgctgagtct ctagtgaact aaggcaagtt cttgtccctg aatttttgtg
aatgaggatt
2701 tgagaccatg gttaagtagc tcttaggggtg tttagcgaag aggggtgggtg
tgggggttagg
2761 agatggggat gggaatggg ttgaagatga gaatggaggt aaggatgtag
ttgccacaaa
2821 actgacctgc cctccgtggc ccacagctcc tacaccatcg ggctgggcct
gcacagtctt
2881 gaggccgacc aagagccagg gagccagatg gtggaggcca gcctctccgt
acggcaccca
2941 gagtacaaca gacccttgct cgctaacgac ctcatgctca tcaagttgga
cgaatccgtg
3001 tccgagtctg acaccatccg gagcatcagc attgcttcgc agtgcctac
cgcggggaac
3061 tcttgccctg tttctggctg gggctctgct gcgaacgggt agctcacggg
tgtgtgtctg
3121 cctcttcaa ggaggtcctc tgcccagtcg cgggggctga cccagagctc
tgctcccag
3181 gcagaatgcc taccgtgctg cagtgcgtga acgtgtcggg ggtgtctgag
gaggtctgca
3241 gtaagctcta tgaccgctg taccaccca gcatgttctg cgccggcgga
gggcaagacc
3301 agaaggactc ctgcaacgtg agagagggga aaggggaggg caggcgactc
agggaaagggt
3361 ggagaagggg gagacagaga cacacagggc cgcattggcg gatgcagaga
tggagagaca

3421 cacagggaga cagtgacaac tagagagaga aactgagaga aacagagaaa
taaacacagg
3481 aataaagaga agcaaaggaa gagagaaaca gaaacagaca tggggaggca
gaaacacaca
3541 cacatagaaa tgcagttgac cttccaacag catggggcct gagggcggtg
acctccaccc
3601 aatagaaaat cctcttataa cttttgactc cccaaaaacc tgactagaaa
tagcctactg
3661 ttgacgggga gccttaccaa taacataaat agtcgattta tgcatacgtt
ttatgcattc
3721 atgatatacc tttgttgga ttttttgata tttctaagct acacagttcg
tctgtgaatt
3781 tttttaaat gttgcaactc tcctaaaatt tttctgatgt gtttattgaa
aaaatccaag
3841 tataagtga cttgtgcagt tcaaaccagg gttgttcaag ggtcaactgt
gtacccagag
3901 ggaaacagt acacagattc atagaggtga aacacgaaga gaaacaggaa
aatcaagac
3961 tctacaaaga ggctgggcag ggtggctcat gcctgtaatc ccagcacttt
gggaggcgag
4021 gcaggcagat cacttgaggt aaggagttca agaccagcct ggccaaaatg
gtgaaatcct
4081 gtctgtacta aaaatacaaa agttagctgg atatggtggc aggcgcctgt
aatcccagct
4141 acttgggagg ctgaggcagg agaattgctt gaatatggga ggcagaggtt
gaagtgaatt
4201 gagatcacac cactatactc cagctggggc aacagagtaa gactctgtct
caaaaaaaaa
4261 aaaaaaaaaag actttacaaa gagatgcaga gacactgaga cagataaaca
agccacaaaag
4321 gagacaaagg agagacagac aaacagaaac agacagacca caagcccaag
agaagcagcc
4381 agcattcagg acataggaca tcgggaagca ggattagatg aagtcaggga
tctggaatgg
4441 gacttccaac agatatgttg ctgggctatg ttgttattga tgatggttct
gtctttgttt
4501 ctcagtctca tttagttcct ttctgagccc atatecattt ccacctctct
gtgttttgaa
4561 ttctgactct cctctcttc acaacagggt gactctgggg ggcccctgat
ctgcaacggg
4621 tacttgacgg gccttggtgc tttcggaaaa gccccgtgtg gccaaagttgg
cgtgccaggt
4681 gtctaccca acctctgcaa attcactgag tggatagaga aaaccgtcca ggccagttaa

SEQ.ID. NO. 2

KLK-L1

SLVSGSCSQIINGEDCSPHSQPWQAALVMENELFCSGVLVHPQWVLSAAHCF
QNSYTIGLGLHSLEADQEPGSQMVEASLSVRHPEYNRPLLANDLMLIKLDES
SESDTIRSISIASQCPTAGNSCLVSGWGLLANGELTGRMPTVLQCVNVSVVSE
EVCSKLYDPLYHPSMFCAGGGQDQKDSCNGDSSGPLICNGYLQGLVSFGKAP
CGQVGVPGVYTNLCKFTEWIEKTVQAS

SEQ.ID. NO. 3

KLK-L1

MATAGNPWGWFLGYLILGVAGSLVSGSCSQIINGEDCSPHSQPWQAALVME
NELFCSGVLVHPQWVLSAAHCFQNSYTIGLGLHSLEADQEPGSQMVEASLSV
RHPEYNRPLLANDLMLIKLDES VSESDTIRSISIASQCPTAGNSCLVSGWGLLA
NGRMPTVLQCVNVSVVSEEVCSKLYDPLYHPSMFCAGGGQDQKDSCNGDSG
GPLICNGYLQGLVSFGKAPCGQVGVPGVYTNLCKFTEWIEKTVQAS

SEQ.ID. NO. 4

Figure 4 Sequence

TGACCCGCTG TACCACCCCA GCATGTTCTG CGCCGGCGGA
GGGCAAGACC AGAAGGACTC
CTGCAACGGT GACTCTGGGG GGCCCCTGAT CTGCAACGGG
TACTTGCAGG GCCTTGTGTC
TTTCGGAAAA GCCCCGTGTG GCCAAGTTGG CGTGCCAGGT
GCCTACACCA ACCTCTGCAA
ATTCAGTGA TGGATAGAGA AAACCGTCCA GGCCAGTTAA
CTCTGGGGAC TGGGAACCCA
TGAAATTGAC CCCCAAATAC ATCCTGCGGA AGGAATTC

SEQ.ID. NO. 5

Table 8 Sequence

TGACCCGCTGTACCACCCCA

SEQ.ID. NO. 6

Table 8 Sequence

GAATTCCTTCCGCAGGATGT

SEQ.ID. NO. 7

Table 8 Sequence

GGTGATCTGCGCCCTGGTCCT

SEQ.ID. NO. 8

Table 8 Sequence

AGGTGTCCGGTGGAGGTGGCA

SEQ.ID. NO. 9

Table 8 Sequence

TGCGCAAGTTCACCCTCA

SEQ.ID. NO. 10

Table 8 Sequence

CCCTCTCCTTACTTCATCC

SEQ.ID. NO. 11

Table 8 Sequence

ACAATGAGCTGCGTGTGGCT

SEQ.ID. NO. 12

Table 8 Sequence

TCTCCTTAATGTCACGCACGA

SEQ.ID. NO. 13

KLK-L2 na

```
1  gggcccagag tgaaggcaag agaaggagtt gagagctccc tctgcaaagt
ggcttgagtc
61  tcccctgcct aaaatgcagg gagagggagg cagaaagaca gggaagagga
aggggtgggg
121 aagaaagaga gagagagaga gagacagaat aacacaacta cagaaacaca
gagagaacac
181 acagagagcc tgggacacag ggacacacag agtcagagag aaaagagaag
atagagaaaag
241 acacaaatgg agacacagag gtgtaaagaa agagagatta acagagtccc
agatacacgc
301 aaaggggcag aagcacagtt ttcagggtgg tgtctatgat catcttcttt
tttttttttt
361 tttttttttt tttttgagac ggagtctcgc tctgtcgcgc aggctggagt
gcagtggcgg
421 gatctcggct cactgcaagc tccgcctccc gggttcacgc cattctcctg
cctcagcctc
481 ccaagtagct gggactacag gcgcccgcga ctacgcccgg ctaatttttt
tgtattttta
541 gtagagacgg ggtttcaccg ttttagccgg gatggcctcg atctcctgac
ctcgtgatcc
601 gccgcctcgc gcctcccaaa gtgctgggat tacaggcgtg agccaccgcg
cccgccatg
661 atcatcttct tgactatgct gatgtgacaa gtacctaaag ccatcagact
ctacccttta
721 aatatgcagt ttgggccagg caccgtggct catgcctgta attccagcac
tttgggaggc
781 agaggtgggt gaatcacttg aggccaggag tttgagacca gcctggccaa
catggtgaaa
841 ctctgtcttt actaaaaaaaa aaaaaaaaaa aaaaaaatc agccgggtgt
cgtggggcac
901 acctgtaatc ccagctatgc tggaggctga ggcacgagag tcacttgaac
cctggaggcg
```

961 gaggttgcag tgggccgaga tcacatcacc gccctccagc ctgggcgaca
gagcaagact
1021 ctgtctcaaa taaataaata aacaaacgaa caagcagttt gttgtacctt
agttatatct
1081 aaaaaaaaaa tgctgtcaac aaatagagca gaagtgaat aaaggaaaat
aatgggcca
1141 agaactctaa ggtatatttg acaaactcatt cagaaccttt aaaaaagaaa
gaatcacaga
1201 ggcatagaaa gacagggagg aacagggaga cagaaacacc tgtggcccaa
ggagaacaaa
1261 acaaggctcc taagacagac aggaggagag agagagagag tgagtggagag
acagacagag
1321 aaaaagacag agagagagag acagagacag agagacagag aggcgagagg
gatagaaaga
1381 gagagagggg tggagagaga cacgagatat tgagagagac tcagaaagat
agccgaggga
1441 gaaccacaga gagatggaag aagactctga gaaaaaacca gagacaaaga
tggaagagg
1501 agtatcgagg gtgaacagac agtggtgga tgagcaaat gcagagaaga
aagcaagcaa
1561 tccaggcgcc aagaatagtg acccagagtt ggtgagaagc cagatcctta
aggctggggg
1621 aggcagggaa ggggctggcc tggcttcgg agaccctcc ccattctccg
ggccagggag
1681 gtagggagtg acattccgga ctgggtgggg ggtgctctgg gggaggagat
agggggagca
1741 ggaggagcta ttgctaaggc ccgataggca cctcattgcc cggaatgtg
ccccaggag
1801 cagtgggtgg ttataactca ggcccgtgc ccagagcca ggaggaggca
gtggccagga
1861 aggcacaggc ctgagaagtc tgccgctgag ctgggagcaa atccccacc
ccctacctgg
1921 gggacagggc aagtgagacc tggtaggggt ggctcagcag gcagggaagg
agagggtgtt
1981 gtgcgtcttg caccacatc tttctctgtc ccctccttgc cctgtctgga
ggctgctaga
2041 ctctatctt ctgaattcta tagtgctgg gtctcagcgc agtgccgatg
gtggcccgtc
2101 cttgtggttc ctctctacct ggggaaataa ggtaggggag ggaggggaag
tgggttaagg
2161 gctccccgga tcgctgggc ctccaaccc tctgacatc cccatccagg
tgcagcgcc
2221 atggctacag caagacccc ctggatgtgg gtgctctgtg ctctgatcac
agccttgctt
2281 ttgggggtca caggtaacca gaactctggg gtgggagggt tgtgggattg
ggaggactgt
2341 ctctgcggca ctagagcgcc tgtccctgg ggaactgtgt gaggctgggc
atgactccgg
2401 gaccgggtga atgtgagtct ctgtctgtac ttgtggttgt gcgatcgtat
gtggccctgt
2461 gactgccacg gtgtgtgtcg gggaggggga tgccttttcc catatcaggt
gactgtgcgg
2521 cagggtggac tgaccctttg aggctgtgtg tgtggttttg tgattgtgtg
tgcatttaag
2581 attgtgtgtg gctccacagc tgtgtgggtg aatgcatgta gactggggg
tgttcactgt
2641 gtgtttggct gtgtgtgtg acttggcatt gtatatgact gcaggatatc
gcagttcctg
2701 tccctgaggt cccgggattg cgtgcaacaa aagtggcat caccatggaa
agctgtgact

2761 gtgtgctgct tgcaggcgat tatgtgattg tggctgagtg tgacgttatg
gatgcccgtg
2821 tttgtgaccg tgtgactacc tgaagctctg tgtaggggtg actgtatgtg
actgtgtgtg
2881 tctgtgtgag gccgtgtaaa tgctactgta tgtgtgatgg tgcagctgtg
tgtctggagt
2941 ttctgtctct gcctggaggg atagaggggtg caggggtagc tatctctggg
agatgggtgc
3001 caggtgactg acttgcaagt tgtgcctgtg tgcagaagag tatgtggcag
tctgaacatc
3061 tgtgcacaca cggcatctgt gcgtggcact gagacactgt ggatgagggg
gtgcatccc
3121 gctaggctgc cggggagcgt gtgtacctgg agacagagct gtatgttagc
tgcacctgtg
3181 gaggcaacat gggcgtgtct gcagaactgc gtgcgtgctt ggctgttact
gctgttgtgc
3241 gcgtggttct tggggtgagt tctgtaatga tgggtgggtgcc agggccatca
gcaagggtaa
3301 gaaccaggcc gggcgcgggtg gctcacgcct gtaatcccag ccttttggga
ggcggaggca
3361 ggcggatcac ctgaggctcg gagatcgagg ccagcctgac caacatggag
aaccctgtct
3421 ctactaaaaa taaaaaaat tagctggtgt ggtggcgcgt gcctgtaac
ccagctactc
3481 gggagactgg ggcagaaaaa tcgcttgaa cggggaggtg gaggttgcgg
tgagccgaga
3541 tcgcgccatt gcaactccagc ctgggcaaca agagcgaac tccgtctcga
aagaaaaaaa
3601 gaaaaaaaaa agggtaagaa ccagtgaatg ggcacgggag gactgatgat
ggagtggggc
3661 atgcatgtag tctgtaggtc tgtgtgtgag aggaggagat tgacaggatt
gagaaggcat
3721 gttttcatct gagaattcag aaacctaggc ctgctcttcc cctccatgtg
gccccctaag
3781 ctgagccctt ctttcttggt cctgctttcg gaacctagc tccgcccag
agctctgacc
3841 ccacctcctt tctcaacca cgcccctagg ccagactcta gtggacccc
cctaaggcca
3901 caccctttg ggccaggctc cacccttat tctgtgggtg ctttctagaa
cccccttcaa
3961 agtcagagct tttttttttt tttttttgga gacagtcttg ctctctctcc
caggctggag
4021 tgcagtggcg tgatctcggc tcaactgcaac ctctgcctcc caggttcaag
tgattctcgt
4081 gcctccacct cctgagtagc tgggattaca ggtgcgcgcc accacgcctg
gctaattttt
4141 gtgtcttttag tagagacagg gtttcacctt gttggccagg ctggtctcaa
actcccaacc
4201 tcaggtgatc cgccacctc ggcctcccag agtgctgggg ttacaggcgt
gagccaccgc
4261 cccagccca aagtcagagc tctttatagg agactctaac atgtaacct
gacctggcc
4321 ctaactaagt caattccaaa ccccttctg cctccagccc tgacccact
cactgaggcc
4381 tgacccact tcttgagacc agttccatcc cttaaagccct ggtctccctc
ccatcccag
4441 gctccagccc ccacagcttt ggcactacce ctgagcttgt ccaggaatcc
tgtaccaat
4501 tttaacctca catgtagttc tagccaattc caggaatctg tgaggctcag
ttagagtcca

4561 gtaaccctac ctgagcctgg gctctgtcct tgagcttgag cctgggcttg
agaggtgcca
4621 ctcttattct ccaggccctg cccctgcccc ctgagcatgt cagacacca
ccctctagct
4681 ggtctggcct cttgagtctg aaaccacccc ccagcccaag ccccgctct
gagccccgcc
4741 caaccattt tccgttccca gagcatgttc tcgccaacaa tgatgtttcc
tgtgaccacc
4801 cctctaacac cgtgccctct gggagcaacc aggacctggg agctggggcc
ggggaagacg
4861 cccggctgga tgacagcagc agccgcatca tcaatggatc cgactgcat
atgcacaccc
4921 agccgtggca ggccgcgctg ttgctaaggc ccaaccagct ctactgctgg
gcggtgttgg
4981 tgcattccaca gtggctgtct acggccgccc actgcaggaa gaagtgagt
ggagttccaa
5041 gaggaggggt ggtggggacg gggaggtggg ggtgggggtg gggaggtgg
ggtgggggtg
5101 tcatggaggt gagggtctgt ggggacgggg aagtgggggt gggggtgtca
tggaaggtga
5161 ggggtgggtg ggatgggttg gggatgtggg agcaggagga ggtcgagttg
gggataggac
5221 taaggatgga gttttgcggg ggagcaaggt gggaggatga ggttgagag
gggagagtgt
5281 tgtggtaggg aatgggaagg agccaaggat gggttggatt tggggtagg
agcatatatt
5341 tgttgaatgg tttgggatgg aggtggaatt gggattggct ttagaattgg
gggtgggtga
5401 aaatcgggct ggggtggaaa tgaagatagc atggagatag ggttgagatt
gggagcagat
5461 atagaatgaa ggatggggat tggagttttg ggtgggggtg gagatgggtg
gatttgggct
5521 tgagaatgca tatggtgatg gcttctgggt agggaaagaa ttagggtttg
gaatgggatg
5581 ggtttggaat tgtgactggg atggggacag gcatgggatt ggagaccaag
agggagttga
5641 ggatggtttg gggaccgggg gtggggatgg ggggtgggct ggggctgggt
gtgggggttg
5701 gattggcggt ggacgtggag atagagatca gggttgggtg tgacctgccc
catcttcctc
5761 agagttttca gagtccgtct cggccactac tccctgtcac cagtttatga
atctgggcag
5821 cagatgttcc agggggtcaa atccatcccc caccctggct actcccccc
tggccactct
5881 aacgacctca tgctcatcaa actgaacaga agaattcgtc ccactaaaga
tgctagaccc
5941 atcaacgtct cctctcattg tccctctgct gggacaaagt gcttgggtgc
tggctggggg
6001 acaaccaaga gcccccaagg tgagtgtcca ggttcttctt gataccgacc
catctctgcc
6061 gccttccatc tttctccact tctcattgtg ttcctgtttg acagtgcact
tccctaaggt
6121 cctccagtgc ttgaatatca gcgtgctaag tcagaaaagg tgcgaggatg
cttaccgag
6181 acagatagat gacaccatgt tctgcgccgg tgacaaagca ggtagagact
cctgccaggt
6241 gaggacacct ctctttattc agcagataca cactgagtgc caactcggt
acatggagcg
6301 ttgccaaatt ctgagaatcc agcaattgcc aagacagtca ggaccctgt
tctcacagag

6361 ctcataccct agagtagtgg tgttttagtag aaataatgct gagctgctta
tgatcatttcc
6421 agtttttttag tagccacatt aaaacaggta aaaaaggctg ggcgcagtgg
ctcacacctg
6481 taatcccagc actttgggag gctgaggcag gcagatcacc tttggtcagg
agtttgagac
6541 tagcctggcc aacatggcga aactctgtct ctaaaaaaaa atacaaaaat
tagcctggca
6601 tgggtggcggg cgctgtaat ctacagctgtc caggaggccg agacacaaga
atcacttaaa
6661 cccaggaggt ggaggttgca gtgagctgag atcgtgccac tcaactccaac
ctgggagaca
6721 gagtgcact tttgtctcaa aaagaaaaaa aaaaacaagt aaaaaagaaa
caggtgaagt
6781 taactttaat aaccaatgt atcccaaata caatcatttc aaagtgtaat
taatataaaa
6841 caattatgaa tgagatactt tacattcttt tcttgttttc atattaagtc
tttgaaagtg
6901 agtatatatg ttatgctgac agcacatctc aatttggact agctacattt
caggtgctca
6961 gtagccacat gtggctagca gttactgtat tggatggcac ggatctagag
ggaaagatca
7021 gggctgtttt gtatgggttg gcaggttggt cactgcataa agataccata
tctaataggg
7081 gcactccgtg ttacagatgt cagttttggc agttttcagg cgtgtggtag
ttaagtgtct
7141 tgtttcaaca aaatctgtaa tatgacagtt ttctagcaag tgctggtaaa
atatcttgag
7201 gaaggaaaag agaaatctgg taggtatttt tacaagagaa tatttaatac
aggggattaa
7261 ttgcaaagct gctggaaggg ctggaggaac aaagttaaaa aataaaaaac
tctgtggtca
7321 agaactctgca taaatagggc aatttcagag agtggttaaag gttacccca
aaataaaaaca
7381 tggtttttagg atagtaaaca ataagggcca atattcaaaa aggtggctcag
gggagcctcc
7441 ttggagaggt ggcatttgag cagagaatgg atgacacaaa gaagctaaac
tcgtgaagtt
7501 taaggggaaa gaaaaggcac gtgcaaaggc cctgaggcag taaggaattt
ggctgattca
7561 aagaagaaga ggaaaccaat gcaactggag aacaaaagtg ggggcaacag
tagaaagtga
7621 cgctggaggt gtaggcaggg gcgaatgtc tgcaagtatt tcttggtcac
caacacagag
7681 ctccctatg ttctaagga agctgtatct gttgaggaag acagaattta
aatcaaaact
7741 gttacatcaa ccagcacct tctctgtatt caggctccca agggatctag
aaggacgtaa
7801 gttacaagc tctcattagc aggggtgtgtg tttcaacagt agttaggaag
ctggggattc
7861 aggagtactc cagtcccatg gctatgaaaa gctccccca aattgtacaa
acctgacaaa
7921 tgcaaacct cccagctct cccatttct tctctgtgcc ctgggtgtgg
gggggtgggt
7981 tgcgaggggg aaaactttta acagaagaaa gcacatctcg gccgggctg
gtggctcaca
8041 cctgtaatcc caacactttg ggaggccgag gcggtggat cactaggtca
ggagatggag
8101 accatcctgg ctgacacggt gaaaccctgt ctctactaaa aacacaaaaa
attagccggg

8161 cgtgggtggca ggcgcctgta gtcccagcta ctcgggaggc tgaggcagga
gaatggcctg
8221 aaccgaggag gcggaacttg cagtgagccg aggttgacc actgcactcc
agcctgggca
8281 acacagttag actccgtctc aaaaaaaaaa aaagaaaaga aaagaaatca
catctcattc
8341 aagtgggtggc atttaaaact atttagcctt tctgtaggca aggttagtat
cttggttttc
8401 cagacctcaa ggtgtttttt tgtttgtttt ttcataccgg tgtgtggtct
gggtgtggcc
8461 actaaaagct acaagcaaga aataataaca actacaacaa tactaatacc
aatagtataa
8521 aaataatagc atctggctaa ttgctggaca ctgttttaag tggtttgcat
gcctcagctc
8581 attaactcat ttacctgtta ttattggccc tattttacia acaaggagcc
aaggctcaga
8641 gcagttaact aacagcctct caaaagaaac tctgcagaga tattaaattt
aaaaaataat
8701 gagagaaatt aaaccacaag aaagttgaaa ttagaggta caggcagcta
agcttgtttg
8761 ctttgaaaca gtgtctgcta ctgggaaaaa ggcaagtctt ggctttccta
ataattgata
8821 ccaggactct gtaattcata ttttgcatgc atgtaagtaa gaaatgaagc
cgggtgcaat
8881 ggcacatgcc agtaatccca gcactctggg agactgaagt gggaagatca
cttgagctca
8941 ggagttcaag accagcctgg gcaactaaaa attaaaaaaa taaaaatact
aattgttttt
9001 atttttagtag attttattca taccacttac atcattattg tagtatgtac
atatttattt
9061 cttttctttt cttttctttt cttttttgag acggagtctc gctctgtcac
ccaggctgga
9121 gtgcaatggc accatatcag ctactgcag catgcgcctc ctgggttcaa
gcatttcttc
9181 cacctcagcc tcccaagtag ctgggataac aggacccac caccatgcct
ggctattttt
9241 ttttttccgt agagatgggg ttccaccatg ttggccaggc tggcttgaa
ctcctgacct
9301 ccagtgatct gcctgcctcg gcctcccaaa ttgctggtat tacagggtgtg
agccaccgtg
9361 cccagggtggg agatagacat ttctctctac ctcaaacaga ggtccactca
agctactttt
9421 cattttcttc ataaatatta gccgagtggc tattttgcac caggaatggt
tccagggtgct
9481 gtggatatgg catcaggcaa aacagaccaa aaacttcctg ccgcgtggac
ctcatgttcc
9541 ccaagtggaa gacaggcaat aaagagatag ataaatatgt agtaaattaa
aaaaaaaaaa
9601 aattagccgg gtgtggtggc ttgcacctgt agttccagct acttgggagg
ctgaggtggg
9661 agaattgctt gagcccaaac gtttgaggct gcggtagacc atgactgcac
tgctgcactc
9721 cagacagcag cctgggtgac aaagcaagac gtttttgtca gaaagaaaaa
aaaaagagac
9781 gaaggaggga aggagagaga aaggaaggaa ggaaggagaa agaaaggag
gaaggagaaa
9841 gaaaggaagg aaggaaggag aaagaaagga agaaagagaa agaaagaaaa
agaaagaaaag
9901 aaagaagaaa gaaaagagag aggaagggaag gaaagaagga aaagaggga
aaaaatgact

9961 gttgaagagc agtgagtatt attataggag ggtaattata gggagggtatg
gggaattgaa
10021 gacaggaaac acaaattagt ccaagcgaat ggatttctat tgggagtgat
tctgccccta
10081 gaagacactg gcaataccag gagacatttt tggttgtcac aactatatgg
aggggcatta
10141 ctggcaacta atggatagat gccaagtgtg ctgttcaaca tgctatgatg
cacacggcag
10201 gcctccacaa caaaccatta tccagcttca gatgcccaca gtgcccagat
cgaggaaccc
10261 tcatccaggg gctgagaacc gtatttttgc agaaggagg tataaggatg
ggttggtgga
10321 gaatggggaa ggaaggtgtg tgtccagtaa gagaaataag gcctgcacag
gctggagggg
10381 agagtgagag agaaaggag gcgagagat acacgatgag ggagacaggc
tggaacagaa
10441 agtagagacg aagattcgag atgtggagag gaagggtcac agaccccc
gaaatgatgt
10501 gtggacaaca ggaatctgga agaggaagat ggagtggaga gtgacaaatg
gggtctaaag
10561 gttgaacttg gaggccaggc atggtggctc acgcctgtaa tccaacact
ttggaggctg
10621 aggtgggcga atcacttgag gccaggagtt cgagaccagc ctggccaaca
tggtgaaacc
10681 ccgtctctac aaaaaaata caaaaaatta gccgggtgtg gtgatggaca
cctgtagtca
10741 cagctacttg ggaggctgag gcaggagaat tgcttgaacc cgggagatgg
aggctgcagt
10801 gagctgaggt caggccactg cgctccaacc tgggcaacag agtaagactc
catctcaaaa
10861 aaaaaaagc tggatttga gtgaaatatt aataacattc tccctctctc
tccttttgcc
10921 tgtgtctcca tctctgtctt tttctgcatt tcttcatctc tgtactttcc
atctctgtgt
10981 gtctgttccc atctgcttct ccatctatgg gcatctctgg gtctctcatg
tctcttctg
11041 ccactttgc cacatctctg cctctctcat gcccccttt ctctcttgc
gggtgattct
11101 ggggggcctg tggctctgaa tggctccctg cagggactcg tgtcctgggg
agattaccct
11161 tgtgcccgcc ccaacagacc ggggtgtctac acgaacctct gcaagttcac
caagtggatc
11221 caggaaacca tccaggccaa ctcttgatc atcccaggac tcagcacacc
ggcatcccca
11281 cctgctgcag ggacagccct gacactcctt tcagaccctc attccttccc
agagatgttg
11341 agaattgtca tctctccagc ccctgacccc atgtctctctg gactcagggt
ctgcttcccc
11401 cacattgggc tgaccgtgtc tctctagtgt aaccctggga acaatttcca
aaactgtcca
11461 gggcgggggt tgcgtctcaa tctccctggg gcactttcat cctcaagctc
agggccatc
11521 ccttctctgc agctctgacc caaatttagt cccagaaata aactgagaag

SEQ.ID. NO. 14

KLK-L2 aa

MATARPPWMWVLCALITALLGVTEHVLANNVSCDHPSNTVPSGSNQDLG

AGAGEDARSDDSSSRIINGSDCDMHTQPWQAALLLRPNQLYCGAVLVHPQW
LLTAAHCRKKVFRVRLGHYSLSPVYESGQQMFQGVKSIPHPGYSHPGHSNDL
MLIKLNRIRPTKDVRPINVSSHCPASAGTKCLVSGWGTTKSPQVHFPKVLQCL
NISVLSQKRCEDAYPRQIDDTMFCAGDKAGRDCQGDSSGGPVVCNGSLQGL
VSWG DYPCARPNRPGVYTNLCKFTKWIQETIQANS

SEQ.ID. NO. 15

Table 11

GGATGCTTACCCGAGACAGA

SEQ.ID. NO. 16

Table 11

GCTGGAGAGAGATGAACATTCT

SEQ.ID. NO. 17

Table 11

GGTGATCTGCGCCCTGGTCCT

SEQ.ID. NO. 18

Table 11

AGGTGTCCGGTGGAGGTGGCA

SEQ.ID. NO. 19

Table 11

CCGAGACGGACTCTGAAAAC TTTCTTCC

SEQ.ID. NO. 20

Table 11

TGAAAAC TTTCTTCTCCTGCAGTGGGCGGC

SEQ.ID. NO. 21

KLK-L3

1 cttgaaccca ggaggcagag gttgcagtga gctgagatcg cgccactgta
cttcagcctg
61 ggtgtcagag caatactccg ttttggaaaa caaacaacaa aacaacaaa
caaaaaaacag

121 atggagcaac tgagagaggt cttgtgactt gcccaaagtc acacacctca
tcactaatca
181 cacctaataca ttgagatttg gacacacatg gttcagttcc agagtccatg
ctccaaacca
241 tgacgacaca gtgagagaac attcaagggg agcccagacc cagcttcata
accaggcctg
301 tgagcaggag aaagtggaag ggatcgtaag tgcccagggg aggcaaagat
ggactctgcc
361 tgaggatctc agagatttcc tggaggaggg agaattgagg ttgggtgttg
aaggatgagt
421 gggagttcac caggaaaaga aggatatgga gaaagacatt cactcattca
atgaacatct
481 cctgaggact tctgcaagcc ctgttccgcc tggaaacgggg tgatgctggg
acacagagat
541 gagtcagacc tgggcccagc cctccagaag ctgtccacct ggtgagaagg
aatgatgagg
601 agagaggcag ggaggatggg gtgatggaag ggacaatggg gtgggggggca
gggagatgga
661 tgaaaaaat atatagcaaa tgttctcagg atttggcaaa gatcaggatg
tattaagaga
721 gagcacaggg cacttgctac ctggaagggt gggcacctgg gtccttgggt
gggtggagccg
781 tggggaaggg ggcagggttat gacaagagtg ggttaatcca gatggaacca
gatttctcaa
841 cattctagga gagggccttg tccttgtggg aagaggccca aatccccagg
gcaggggaagg
901 ttctgcaagg tgtgtaaacc tgtgcagctg cctgtggtct ctgcctcact
ccacctggat
961 ttccctcaat ctttcccgtg ttctgtctcc tcctccact cctcctctca
tcttgggtcc
1021 ttctgtgect gtacctccct ctctttgtat cttttgctct tgtgtctgag
tcctgactct
1081 gtcttccacc cctgcctcc tttctgggtg gtccccctgc acatccctcc
agcctgccgt
1141 gggaggttgg tctctgcaca ccactgcttt atccaaaata aacctgtgc
accccaggac
1201 cttaggett c aaggatctcc ctcttttcc aggacacaaa agattctgta
tcttgtagcc
1261 taagtgatg aggaatgagg tctcccactc tgaagacccc agaggaggtg
cccacaacct
1321 ctccacaccc ccagcactcc tcctccattc agtcaagctc tggcccagca
agccgccagt
1381 tcatcccaaa aggggggtcc ccctgcactt acctcctctc ccaaggcccc
tgtcacagcc
1441 ccagggttcc cccctcccc aggtacattt cccaaccccg attaatacaca
ggggcgggcc
1501 catggaggag gaaggagatg gcatggctta ccataaagaa gcaactggacg
ccgggtgcac
1561 gttccaggat ccagggtgcc aggggtcatg aagctgggac tcctctgtgc
tctgctctct
1621 ctgctggcag gtgaggctcc caggctgggt gcccttcac ggctgtacta
aggtcacctt
1681 gctcttccct cccatcccag gcttctgct cctgcccctt aggtctctca
gcactctctc
1741 cctgcccctc cagcctgtc ttcgctgacc cctttgtccc tcatccccac
cccagggcac
1801 ggctgggcag acaccctgac catcggggcc gaggaatgtc gcccacac
ccagccttgg
1861 caggccggcc tcttccacct tactcggtc ttctgtgggg cgaccctcat
cagtgaccgc

1921 tggctgctca cagctgccca ctgccgcaag ccgtgagtga cccaggctgg
ccatgctggg
1981 gagggacaga ggctgggggt caggagaggg tgaggggtgc tttaggccag
aagtgcggag
2041 cctccacttc tgataccaca agttcaactc ttagaagtag gaagggtagc
ctcccaaadc
2101 ctaaaattct agagaccagc aatatctcat ttgagaagtc taagattcga
aacttaggct
2161 cttcgaatcc gagactgacc cagagaaaac cagaatcgta gaatcctaaa
atcttgaatt
2221 tatgaaattc tgcaatagcc tcagcaaatt ttagaatcat agattcgcag
actattagaa
2281 tcttagcagt ctgggtcagc actgcccaga ggaattatga tgccagccac
atgtgtaagt
2341 ttaaatttct ggtggacaca tttaaaaaat aaggaatgag taaaattaat
tctaatagat
2401 ttaacttgac atacccaaaa acttatcttg acatgtaatc aatttttaaa
tacgtatgaa
2461 cgatacagtt tacttttggt ttggtactaa gcctttgaaa tctgttctgt
attttacaca
2521 catagcctgt tacaaaaatgg actagccaca tttcaagtgt tcaatagcca
taatggctag
2581 tgtgatccta gaatcttaaa ttcagagctt tctagattca ttgaatattg
aaactcacag
2641 tactagaatc tttgattcac agtatcctag aatattgaga ttcagataat
tctgtagtct
2701 taaactatct gaatcccaga ctcttaaat tctaaggtta tagatttata
gaatgatgac
2761 attctagtct ttcttttttt tttttttttt tttttttgag acagagtctc
cctctatctc
2821 ccaggctgga gtgcagtggc acaatctcag ctactgcaa cctctgcctc
tcgggttcaa
2881 gcaattctcc tgccctcagcc tcctgagtag ctgggattac aggtatgcac
caccatgcca
2941 ggctattttt tttttttttt ttttttttagt agagacgggg gtttcacat
attggccagg
3001 ctgggtctga actcctgacc ttgtgatctg cccgcctcgg cctcccaag
tgctgggatt
3061 acaggcgtga gccaccgccc ccagccaaaa ttctagtctt tttgtcctag
aacattaaaa
3121 ttctatgttc aaatcttaga ttttaattcag ataatgtag aatcctggag
tttttttgat
3181 ccaggggaat ctggaatggt agaactcttg attcataaaa ctctaaacct
tgagcctcta
3241 gattctagaa tcatggataa tagtgtgtcg gaatctgaga attctagaat
cttaggtct
3301 gggcattcta atagtatcct ggaatccacc tgatgcagga atcctctctc
cattgcctct
3361 gaaaagtgac catccatact gttccaattt tcttccctcc atgagtaaa
cactgattgt
3421 ggtaagagat gctgtgtggg aatttcccat catgcattgc tccatgatgg
aacctccttt
3481 aacttaagcc tatacatcag actgggagaa cgatgttcag atttcagccg
aaagtgaagc
3541 aggagaaatg cagagatatg aagggtggaag agagtgagag gcagggggaag
ggtaggggga
3601 tgaagggatg taggggtgag gactactttt ccagatccag agccaagaca
gcaagaatga
3661 cagagagaga cagacacaga tgtttctggt tccccaacct tgaattcgca
gtcattagcc

3721 tgctgcctaa tgtcagaggt cagaggctgg ggaatggact tgtcatcccc
gaaaggatcc
3781 cagctgtcta gggcatggac cagaaatgaa acaagtgcgc tgagactgtg
gtgagggtt
3841 aaggtttagac accaggaaga catgcattga aggggtgaagg atatgataga
caggaaaagc
3901 tgaggccaga gatgaccccc aatttgggga ttttccatat cccatcccc
ttcatacaca
3961 cgcacacgta tacacacaca ccacttagac atacagagcc gctcccacag
aagccaccag
4021 acctgtgggg gcaggggtgg ggcggttgtt atgtggtagg tgggggtcccc
cgtgcccaca
4081 ccgttcctag ggacccaagt caccaccaag gctccagggt agtagggagg
aagggtggctc
4141 actcagcctg ggactaggag cgggggcttt gtggggagag ctacaaagat
ggagacacac
4201 aaaacatcag agtggggacc agggaccag aggaggtgtg tgcctcgctt
aaaatcacag
4261 taccctgggc cagacataga tgatgagggt gcagagaggg tgtgtggctt
gcagagggtc
4321 acacagcacc ctgatggaca ggaaaagagg gctggggctg aaaggacttt
tacctttccc
4381 ccagcttgac ctctgaggcc tgtcccagca ggtatctgtg ggtccgcctt
ggagagcacc
4441 acctctggaa atgggagggt ccggagcagc tgttccgggt tacggacttc
ttccccacc
4501 ttggcttcaa caaggacctc agcgccaatg accacaatga tgacatcatg
ctgatccgcc
4561 tgcccaggca ggcacgtctg agtcctgctg tgcagccct caacctcagc
cagacctgtg
4621 tctccccagg catgcagtgt ctcatctcag gctggggggc cgtgtccagc
cccaagggtg
4681 tgacctggcc cagaactctc tctgaaactt gctccctcac ccctctgtct
ctgccttttc
4741 atctctgtct tctccttttc tctctctct ctctctctgt cagtctatct
atctgccaat
4801 cgatatattt aaccaaatat aagatgctag catttttaag atgtgccatt
atttcatgaa
4861 ttgcgaagaa gtggaagaag gaggaggagg agaagaaaaa aaggaggagg
aggaaagatc
4921 ccattagatc ccattgatta tataacacca ttttctggaa gacacattct
aatttcagag
4981 tgtttgtttg tttgtttgtt tgtttgtttt tgagacaggg tctcgctttg
ttgctcaggc
5041 tggagtgcag cgggtgtgatc acggctcatt gcagctttga actcctgggc
tcaagtgatc
5101 ctctcgctc aacctcccaa gtagctggga ttacagatat gcaccaccac
atcccacacc
5161 ggggtcattt ttttattatt tattattatt attattatta tctttttttt
tgtattttta
5221 gtagagacag aggtttcacc atattggcca ggctggctct aaattcctga
cctgggtgatc
5281 tgcccgctt ggactcccaa agtgctggga aaacaggcat gagccactgc
acccagccaa
5341 aattctagtc ttttttaaatt ctagtcatat cttagattta attcagataa
tgttagaatc
5401 ctggagtttt ttgatccagg ggaatctgga atgttagaat cttggattca
taaaactcta
5461 aacgttgagc ctctagattc tagaatcatg gatactagtg tgtcagaatc
tgagaattct

5521 agaattcttag attctgggca ttctaatagt atcctggaat ccacctgatg
caggaatcct
5581 ctctccattg cctctgaaaa gtgaccatcc atactgttcc aattttcttc
cctccatgaa
5641 taaagcactg attctggtaa aagatgctgg gtgggaattt cccatcatgc
attgctccat
5701 gatgggacct cctttaactt aagccttatg ctaaaaattt ttattatttt
tagcaaagat
5761 gaggtcttgc tatgttgtcc aggctagtct caaactcctg gcctcccaaa
gtgctgagat
5821 tacaagtgtg agccactgta cctggcccag agatgtttaa atgtgaaatg
cgttcatctt
5881 agaatgggaa taagaccatg tctctcagag tcacggatca ctgaccatt
agccaaattg
5941 ggtcagtga ttggaaaaac agtctgaatt tgttgctgcc aatatctaaa
acttggaag
6001 ttttatacaa aagccagggt tctggattca cctgaaaaag ttgaagaac
tcacattccc
6061 aaaatagcaa gcattgggct gagtcaatgg aggctgcccc ctacagccaa
gataagttct
6121 ctgattcact ccaatggacc caaatggctc ctgtctcct gcacagcccc
cgccccgac
6181 ttctgtttac caattctgtt tatcatatcc ctgatgcat cggagcctgc
acccatgtct
6241 tatatagatg cacatgtgta ttatatatcc atatccacat ctatactgac
tacactgtat
6301 ctggatatct tgtctatgtc tctgtctcca tcagtgacca tcttcctgca
aatctctttc
6361 cttttatctc actgccttca ttccaccct tgaggctctgg gtctttttct
attctttttt
6421 tttttttttt taagagactg agtcttgctc ttgttgccca ggctggagtg
cagtgggtgtg
6481 atctcggtc actgcaacct ccacctcctg ggttttaagt gatcctcctg
cctcagcctc
6541 ccgagtagct gggactacag gtgtgcaaca gcatgcccag ctgatttttt
gtattttcag
6601 tagagacgga gtttcacat gttggccagg atgggtctcaa tctcttgacc
ttgtgatccg
6661 cccgcctcag cctcccaaag tgctagggag ttatatatgc atctcctctt
atctcttggc
6721 tctctgcatg catctttctg tttctcttcc ttcctttctt tttttttttt
tttttttttt
6781 tttttttttt ttttttgaga cggagtcttg ctctgtctcc caggctggag
tgcaagtgacc
6841 agtctcggt cactgcaacc tccacctccc aggttcaagt gattctcgtg
cctcagcctc
6901 ccgagtagct gggattacag gcgcctgcca ccatgcctgg ctaatttttg
tatatttagc
6961 agagatgggg tttcaccatg ttggctgggc tgggtctcaa ctctgacct
caagcgatcc
7021 gccggcctcg gcctccaaaa cactgggatt acaggcatga gccacgggtc
ccggccagcc
7081 tctctcteta cttggcctc tctctccttg tctccatttg tttctcttgt
gtgctatgac
7141 tgtctgtctg tcaactgtct ttgtctctat ctttgagagt cctaaatgtg
gtcccatgg
7201 tcctttggaa aagctgcagg gaggactcag ggcagtgggg tgctgagtgt
gttgagaca
7261 gttgcagatc cttgacagtt ctctccctg acagcgctgt ttccagtcac
actgcagtgt

7321 gccaacatca gcatacctgga gaacaaactc tgtcactggg cataccctgg
acacatctcg
7381 gacagcatgc tctgtgcggg cctgtgggag gggggccgag gttcctgcca
ggtgagacct
7441 tactctgggg aaaatgaggc tgtcctgcca agttttctag gatttagggg
agcagagggg
7501 tcggcccccga gccttctctgg gtcaaaatga gaaggagact gggatacctg
gttcctggga
7561 gaggacggga ccagggcctg gactccttag tgtaaaagag aaaaggctctg
gaggtccaga
7621 cttctggatc tacaggagga gtgggctggg cgtccagagt ctgagtcctc
ggggaggagg
7681 aggttaggtc ctgcggggag gtgggccctc tgagctttta ctctgggtc
tgaggaagaa
7741 gaggctggag atggaggact ctcgatgtt ggaggaggaa ggggctggg
cctttctggg
7801 agggaggaag tggcccggtg aattgtcatg aacagagtgg cctaacagt
cctctgccct
7861 tctctcgt acagggtgac tctgggggcc ccctggtttg caatggaacc
ttggcaggcg
7921 tgggtgtctg ggggtgctgag ccctgctcca gaccccgccg ccccgagtc
tacaccagcg
7981 tatgccacta ccttgactgg atccaagaaa tcatggagaa ctgagccgc
gcgccacggg
8041 ggcaccttg aagaccaaga gaggccgaag ggcacggggt agggggttct
cgtagggtcc
8101 cagcctcaat ggttcccgcc ctggacctcc agctgccctg actccctct
ggacactaag
8161 actccgcccc tgaggctccg cccctcacg aggtcaagca agacacagtc
gcgccccctc
8221 ggaacggagc agggacacgc ccttcagagc ccgtctctat gacgtcacgc
acagccatca
8281 cctccttctt ggaacagcac agcctgtggc tccgccccaa ggaaccactt
acacaaaata
8341 gctccgcccc tcggaacttt gccagtgagg acttccccctc gggactccac
cccttggtggc
8401 cccgcctcct tcaccagaga tctcgccct cgtgatgtca ggggcgcagt
agctccgccc
8461 acgtggagct cgggcggtgt agagctcagc cccttggtggc cccgtcctgg
gcgtgtgctg
8521 ggtttgaatc ctggcggaga cctgggggga aattgaggga gggctctggat
accttttagag
8581 ccaatgcaac ggatgatttt tcagtaaagc cgggaaacct ca

SEQ. ID. NO. 22

KLK-L3

VHFPTPINHRGGPMEEEGDGMA YHKEALDAGCTFQDPACSSLTPLSLIPTPGH
GWADTRAIGAEERCPNSQPWQAGLFLTRLFCGATLISDRWLLTAAHCRKPL
TSEACPSRYLWVRLGEHHLWKWEGPEQLFRVTDFFPHPGFNKDLSANDHND
DIMLIRLPRQARLSPA VQPLNLSQTCVSPGMQCLISGWGAVSSPKALFPVTLQ
CANISILENKLCHWA YPGHISDSMLCAGLWEGGRGSCQGDSGGPLVCNGTLA
GVVSGGAEPCSRPRRPAVYTSVCHYLDWIQEMEN

SEQ. ID. NO. 23

KLK-L3

MKLGLLCALLSLLAGHWADTRAIGAEECRPNSQPWQAGLFHLTRLFCGAT
LISDRWLLTAAHCRKPYLWVRLGEHHLWKWEGPEQLFRVTDFFPHPGFNKD
LSANDHNDDIMLIRLPRQARLSPAVQPLNLSQTCVSPGMQCLISGWGAVSSPK
ALFPVTLQCANISILENKLCHWAYYPGHISDSMLCAGLWEGGRGSCQGDSSGP
LVCNGTLAGVVSGGAEPSCRPRRPAVYTSVCHYLDWIQEIMEN

SEQ. ID. NO. 24

Table 13

CATGCAGTGTCTCATCTCAG

SEQ. ID. NO. 25

Table 13

CATGGAGGAGGAAGGAGATG

SEQ. ID. NO. 26

Table 13

CTTCGGCCTCTCTTGGTCTT

SEQ. ID. NO. 27

Table 14

GACCCTGACATTGGACATCTA

SEQ. ID. NO. 28

TABLE 14

GCCACTGCCTGATGGAGACTG

SEQ. ID. NO. 29

TABLE 14

AACATCAGCATCCTGGAGAA

SEQ. ID. NO. 30

TABLE 14

CTTCGGCCTCTCTTGGTCTT

SEQ. ID. NO. 31

TABLE 14

GGGTCAGAGCTGCAGAGAAG

SEQ. ID. NO. 32

TABLE 14

GGGCCTGTCTGTCTGCAATGG

SEQ. ID. NO. 33

TABLE 14

ATGGCCACAGCAGGAAATCC

SEQ. ID. NO. 34

TABLE 14

GGTCACTTGTCTGCGCAGAC

SEQ. ID. NO. 35

TABLE 14

CCCAACCCTGTGTTTTTCTC

SEQ. ID. NO. 36

GGCCCTCCTCCCTCAGA

SEQ. ID. NO. 37

TABLE 14

ATCCCTCCATTCCCATCTTT

SEQ. ID. NO. 38

TABLE 14

CACATACAATTCTCTGGTTC

SEQ. ID. NO. 39

TABLE 14

AGTGACACTGTCTCAGAATT

SEQ. ID. NO. 40

TABLE 14

CCCCAATCTCACCAGTGCAC

SEQ. ID. NO. 41

TABLE 14

GCTTCCCTACCGCTGTGCT

SEQ. ID. NO. 42

TABLE 14

CACTCTGGCAAGGGTCCTG

SEQ. ID. NO. 43

KLK-L4 NA

1 caggagggttg cacactgttc ctccacctc gccactgcac cccaccaag
gatggaattg
61 gaggcggggg gcagattcca gggtcagggc tgtcaagagt gaatgaggcg
aggagacatt
121 caggagcaga gaggtttcag acgcggaggt tccgggcacg ccctcaacac
ccccttcacc
181 ttctctcag gccccgccc ccctgccctc ccctcccgat cccggagcca
tgtggcccct
241 ggccctagt atcgccctcc tgaccttggc cttgtcagga ggtaagaatg
cgcggggggtg
301 gaggcgcggc ggccattcgg gacaatggta ggaggggtca ggccggaggg
ggagggggcg
361 tgggagccgc gagctccgc ccccgccac tcggggccgg gtccagtggg
gacagctcag
421 agctcttct gcttgcctt ggggtgacct gtttcccggc tgaggttggc
cctccgacct
481 cagacccttc acctcccaa ataccctcgc agcagccct cccgcgttca
aggcttctg
541 tcctctctgg aaagctgaaa gacatgggtt cgctcctga cgctgccgt
ttgagccagt
601 agcctagcag ctgctttgtg cctaaattgt tttcatctgg aaaatgggct
taatctataa

661 gtgcttacca gagaagggtca ctgtgaatat tgaaacgagg taatgcgtcg
agccttcagt
721 atgtcgcagg tagaagggtac ttgaaagtta gccacttagc cgttattact
ttattagtag
781 tattcctttt tttttttttt tttttttttg agatggaacc ttgctctgtc
tcccaggctg
841 gaaggcagtg gcacgatctt ggcttactga aacctccgcc tcccgggttg
aagcgattct
901 cctgcctcag cctccccagt agctgggatt acaggcgccc gccaccacgc
ccaactaatt
961 tttgtatttt cagcagagac ggggtttcgc catgttggtt aggctgggtct
cgaacttcta
1021 acttcaagta gcccgcgtca gcctcccaaa gtgccaggat tacaggcatg
agccaccgag
1081 cccggcctct agtattctgt cttcatactc agcccttcc agaacttct
agattgttat
1141 tttaatcctt ggggttgacc caaacctatg tgacctcacc ccaaattggt
agtccttaag
1201 atccttatgg atctttccca tctttccctg cgttgtagg caggttctct
ggaaaccccg
1261 ttcatagaatc atttattcat tcaacaaaca gctattaaac accggccact
gtgctgggtg
1321 ctgtacaagc agagacacag tccctgctct cagcacctgg agtctagcgg
ggacagacgc
1381 agatgttatt caaacaatta tccaaataat tagttaataa ttatcttgac
atgaggtgaa
1441 gacttcaagg agccaagcca ggggcctaga gatgtaatgg cggttcccg
accagaggcc
1501 tccccaaagg gcttgaccct tgagccaaga cctgaaaaag gagggatctg
tgggtgctg
1561 gcacctggca ccactcttgg cctgaagggt ggggtggcttt tctcctctgg
cgacactccc
1621 tggattcatg cccgtgccac tctgagtgc cacaccctag gctaggagac
ccacacgcta
1681 cgccttgtgg agtcctcaac aacctggcga ggtaggtgca ttgtaattac
tccaatttca
1741 tggcagagaa acctaggact caaagacaga aggctcctgc tccaatgaca
ccggcgatgc
1801 ctgagtcaga atcctaatac aggttgtttt ccctgtccat atcctggact
tgaggctctg
1861 aaaaccattt ttataacttt tgacctaatc atttgcttaa agttagcttt
ttttcttctt
1921 ttttactca aacaaaagca tgttcaactt tatattactg tctgaatag
agaatagaat
1981 tctttgtcat aaatagaagg taaggaagga aataaatcct gcacaatgaa
aagaaaataa
2041 tatgtttatt gggttggacc acctgaaatt gctgatactt gaccctttt
gaccttcta
2101 aaacaacttt tgcagatggt tcagtgtaat aaatgttagg tggcctgatg
aggcttctgt
2161 gtctccttgg ctttgaaaag tgagctcagt gaggattagg gaggtgttaa
aaccatatta
2221 gcaccatcct gagactttat ccttgacaaa atcaggttta aaagagaact
ggatgctggt
2281 tcagcgtctg agtgtgcat ttaacgttac ttaaacttca tctctctacc
atctaaaatg
2341 atcctgtgct caccgacaac ttctgtccct aactgcaaac cactgagcta
atccaactgc
2401 ttgccctgta gttggggaaa ctagctaggg aggcagaggg acctcctggt
gtagctaata

2461 attaataata acatttccca ctgactgagt gctctccatg ccacctgctg
tgctgcacgg
2521 ttgaaatgc aggatcatct tgaattcttc aactgcgcaa tgagagatga
actattactt
2581 tttctacttg acagctgggg aaactgaggc tgggtgatttg cataaggtca
cacagtcaca
2641 aaatggcatg catgttcagg attggattct cctgtccca cggacccctg
ctgtgctttc
2701 aatgccagac acagtgcctg gcacacacag catttattta ttgagcccc
attgtgtgcc
2761 aggcgctgtg ttaggtcctg ggaatatggt actgaataaa gcagttaagg
tgccctgttg
2821 caatggagct tacagtcaaa gtggagagat ttttaaaaac gaatacatc
aaatgtgaag
2881 agaaatgaat agcaatcatt gttctgatga agaccaactg gaagaatgta
atgggggagg
2941 agtcgggacc aggagagtca acattagacc aggtgggtcag ggaaggcctt
tctgaagagg
3001 agacatttga gctgacctct cagaattaag aaggaccag acatacaacc
tctaaattct
3061 gagggctcatc cagtagaata ttccatatat gtatatatga aatattctat
atctgtgctg
3121 tccaattatc cactagcccc ttcaggctat tgaacatttg aaatatggct
ggtgtgactt
3181 aagaactgaa tttttaattt agttttactt cattttaatt agtttaaatt
taaatagcca
3241 catgtagcta gtggctacca tattaacaa cataggctcag gagaaaggac
tgtgcagaga
3301 gaggaaatag caagtataaa atgtctagta tgggggcatc caagatgatt
taaattcttc
3361 ttttctttaa atgcctgggtg tgtttgaaga acaggcccat gaggctggac
tagaggaagt
3421 cagaagaaag aggttggaga tggggtcaaa gaggctggca agggccagac
agcacagagt
3481 cctgcacacc ttgggaaggc ttttggatt ttattttaaa gaaagttag
cctgggaaca
3541 acatctgact ttctttgttt gaagagtcct cagcctactt tgagaagact
ggatcggagg
3601 gatgtaaaag tggaaggatt taggttaatg ttgtagtcac ttgggctaca
gaagatgggg
3661 catggaccaaa gatgggtggca gaagtgtgga gataactgga tatttgggag
ataaaaaccaa
3721 taggaactgg ttgtgagtga tgaaggaaag aagagaagca aagatgactc
ccaggtttgg
3781 ggctgagcac tgagggtggga aatactggag cgaacagttt tgattgagaa
gaatcaagtt
3841 gggaatacaa agcttaagat gcctgtaagg catccaaatc aacagtgttt
gagttttgag
3901 cttaaagaag agttcagggc tggagatgat tagcctatag ctggtattta
aagccatgga
3961 ggcaaccagt atatatgcag tgaaaggata gagagatggg tggaaagatg
attggatgga
4021 tgcattgatg gatatatgga tagatggatg gatggatggt tggattggat
ggatggatgg
4081 atggatggat ggatggatgg atggatggat ggatgaataa atggaccagt
ggatggaggg
4141 acagatgagt ggatggatgg ttggatggat ggatggatgg atggatggat
agatggttag
4201 atgactacct aaatggatga atggatagat ggatgagtag acggatggac
aaatcaatag

4261 gatgaatggg ggatggatga ttggatagat tgatggatag atattgccta
ggatggatgtg
4321 taggtcagtc tcacttctac ctcttgaaat ccatcttctg gtagaatgat
ataaaaaaatg
4381 catgtggaga gaaagtcagg ctcttgctta cctatcagca acatcctcat
tttgtgaact
4441 cttctgttaa cccccagtgg aggatttggg acttcttgag aaaataatgt
cacccttttg
4501 ccctaattca tctccacttg gtcaagaata gcaactgcca taggtcggca
aattcatctt
4561 cagttctctg tcacccaggg caataatccg acccttacc caaaccaga
aaccacaacc
4621 ccagggctcc tctgccccct ggatcccagt tttctaaca tctctcttct
ttaccaggtg
4681 tctcccagga gtcttccaag gttctcaaca ccaatgggac cagtgggtt
ctcccaggtg
4741 gctacacctg cttccccac tctcagcct ggcaggctgc cctactagt
caagggcggc
4801 tactctgtgg gggagtcctg gtccaccca aatgggtcct cactgccgca
cactgtctaa
4861 aggagtatgt gggggccggg ggagcatggg gtagggatga gaatgggact
gggattgtgg
4921 atggggtaga gttggatttg aggatggagt tggagttagg gttggggatg
gacatgggag
4981 tgagaatgag gtttgggggt gagatatggg gattgggtat gggaatagaa
tcaaagtagg
5041 ggatttggat gggattgaag ttgaggatgg gggagatgta tttggagatg
aggaaggtag
5101 gatggagaag aagttaggtt ggggatggga agaggttggg gctgggatgg
ggatggaaat
5161 gggctcatct tctttctaa ccaccttctt tctgcacca cagggggctc
aaagtttacc
5221 taggcaagca cgccctaggg cgtgtggaag ctggtgagca ggtgagggaa
gttgtccact
5281 ctatcccca cctgaatac cggagaagcc ccaccacct gaaccacgac
catgacatca
5341 tgcttctgga gctgcagtc ccggtccagc tcacaggcta catccaaacc
ctgcccctt
5401 cccacaacaa ccgctaacc cctggcacca cctgtcgggt gtctggctgg
ggcaccacca
5461 ccagcccca gggatgcac ccacacaggg ggcctgaggc cccataggag
tggtgggga
5521 aacaggggca gagatgggag ggaaggctc aggtaggttc ctttatatat
aaaaatataa
5581 ataagtaaata aaatatatat atttaaagt agctgtatcc tttatataaa
tataaattca
5641 tgaatatata aaaatatgag tatataaatt catgaatata tagaaatata
aatagatcta
5701 atatatgaat atattatatg atgtatatta tgtattatat agtaatatata
ttatatatta
5761 tacaaaaagt atacaaatta aatgtatttt ataaattata aaatttatca
attatgtatt
5821 ttaaataatgt atttctgcat aatgtatata ttatatataa tctatattta
aattatatat
5881 tataaatgta ttttataaat gtatacatat atatatttat atactgtaaa
tgaattttat
5941 catttataat atataaatca tacatatata atgttttatat ttctataatt
tataaaatgt
6001 ttaatatatt aaatatgggt attaataaaa tgtctaataa ttcaatgtaa
taattaattc

6061 tatatcatta cttagtaagt ataatacatt atatatgtga atataaagtt
gatgtatata
6121 ccgacaagag ccctttgcat ctccctagca atccctgact ctctcccagc
ctcatgtttg
6181 tatctttctc ctcaacatgc cctgtctctc ttcttaccat tctatccaac
tctcccgtaa
6241 ctcttcccat cctgttctt gcttttccca tctttaatte tctatttctg
accatctccc
6301 tattccaact cctctctctc aactttctct cccaccgct ggctccacca
ctctccttat
6361 caaccttcca ttctcttgtc ccttccctcc ttgtccttcc ctccactttt
ctcctcatct
6421 ctcccttcgc ctctctccca tgctccctcca tatttctgtc acttccggtg
ctttaccag
6481 atagggtgctc atctcttctc ccacttttct ctcccatct caattttcta
tctactcttt
6541 acccattcaa ctgcctatt tcaccttcat cccatctct atccaggtcg
gataccttag
6601 accttctctt tcttctcccc agtgaattac cccaaaactc tacaatgtgc
caacatccaa
6661 ctctgctcag atgaggagtgc tctcaagtc taccaggaa agatcactga
caacatgttg
6721 tgtgccggca caaaagaggg tggcaaagac tctgtgagg tgaggccggg
aggctggtgg
6781 gtgccttgga caggatagaa agccagaatg gaagtgcag atgctgggga
aaaagctttg
6841 tttccagcct taggggaacc aatctttata agatacaatg tcccctcaca
taggaggtca
6901 agacaaaaag ggtacctcag ggatggcagg aataattcat cataagcccc
agctttgact
6961 gagtggctgc caagatccct gtgttgagat gcataaaggt tggattctt
tcacttgtga
7021 gtgatagaca accaactcaa actggcttaa acaaatgca ggcttttgta
actgaaaatc
7081 caggttgtct ggctttaggc acagatggat ccaggtatgc aaattgtgtg
tttgaattc
7141 tgtctttctt ttaactctca gctcttctt attctgtttt ggcttcattc
tcggttagat
7201 tcttcccatg acaagatggc cccagcagct ttgagcttac atcctacct
ctaggcaacc
7261 ctattagaaa gagaacctct cttttccaat agttcacaca aaagtcttaa
gcatgattct
7321 cactaggctg acctaatgca tgtgtcttga gccatcactc caccagagct
gtgggattct
7381 ctgatgggcc aagcctgagt cacatagtta actgtgggtg ctggagaggg
gcagggacaa
7441 actgcatgga ttggaagtgg agaaggcag tcccccaat gaaaaaatca
ggagaggctg
7501 ttaccaaaat aaggggaaat ggccaagtac agtagttcat gcctgtaac
ccagcacttt
7561 gggaggctga ggtgagagga ttacttgagc ccaggagttt gagaccagcc
tgggcaacat
7621 agtgagactc tgtctctaca aaaagaaaaa aaagttttta aattagccag
gtgtggtgga
7681 gtacaactgc agtctagtgt actcgggagg ctgaggcaga aggactatct
gaaccagga
7741 gttcaaggct gcagtgaggt atgatcatgc cactgcactc cagcctgggt
gatagagcaa
7801 ggccctgtct ctaaaacaaa aagaaataaa tagagcaaga cactgtctct
aataaataaa

7861 taaataaaaa tttaaaaatg aatgtttaat tttttaaaaa taagaggaaa
tggatactac
7921 atgagcaaaa aatagccttc atcaataaag aagttgagat tggattcagt
gagaaagagt
7981 atgatactat attaatgata tgtgccttga tgcattagtg atgtctgcct
tgggccagg
8041 aagagaaata gacttacacg tgtgttgcac accctgcca gatatgaatg
ggttcaactca
8101 atagttagag acacaaatga gccttaaata ggagcagggt cagctggtgt
ggggcagggt
8161 gtgatttagt accaggaaa caaaaatggg tatgaagtaa gttgttacca
ttttaatgaa
8221 actgaggaac agagaaaaac acagaaattt ctctgtgtct ctctttctct
gggcctatct
8281 ctgtctttct gtccctatct ctgtctcttg ctgtctgtcc ctctgtgtt
gtctctttgt
8341 ctgtttctca ctgtcttcat tgccttctct cacactgtgt gtgtctgact
ctgcctctct
8401 gagtctcctt ctctgtgtgt gtctctctcc atctttcact ctctccccac
acctcctgt
8461 ccctgccttg tttagcccca gcaaggacc acctctctct ctctttcttt
ccccaactca
8521 ggggtgactct gggggccccc tggctgttaa cagaacactg tatggcatcg
tctcctggg
8581 agacttccca tgtgggcaac ctgaccggcc tgggtgtctac acccgtgtct
caagatacgt
8641 cctgtggatc cgtgaaacaa tccgaaaata tgaaaccag cagcaaaaat
ggttgaagg
8701 cccacaataa aagttgagaa atgtaccggc ttccatcctg tcaccatgac
ttcctcacat
8761 ggtctgctta gcccttctct gtccttatt ccagtggtc catttgaacc
agtgatccat
8821 gtctgaaaa atgctcaatc tcagctaaca ttccatgttt cagaagcatt
caggcactgc
8881 caggcttgca gtctcccaga tgttgcaccc ctgaaacatc tcaacaacct
gaatgtccca
8941 acccagacaa tggcccagggt ctctcaactt catcagtgtg gcttctatga
gcccagatca
9001 ccacctgaac gttctgtctg tggcacattc ttaaatattt ccatcagccc
atctcaacaa
9061 tatatgtcct ataaatggac catccttgac aacatcctct aactcttcaa
gtatttattc
9121 aatgccagta tcttagacct tctatttttt gcactcaaga aggctctaga
ctcccatgat
9181 agttcatcct gaaaatattc tcttatgcc acaatcttct gccctgacaa
cattctgtgt
9241 acctctgtga ctccaccag ctaacattgg atcctcagaa tatttcattc
tcacactgtt
9301 atgggtgtct cagaagtcce aacccaacct acatcccaca ttcttccaat
acccacctc
9361 tgccaacatt ccctctctga atcaatggca ccctagtctc tagagttata
gggttcagta
9421 taccaaaggg tcttcttgcc tgaactttat tgtctaccaa atattccgtc
ttgtatcccc
9481 tccatgaaca tccttggtca gtgtcccttg ctgttacatc tttgtgcatg
accctaaaat
9541 gtagtgcaaa tccttgcttt ggacaagtta taaaactcac agtctctgtg
ctttctcatc
9601 tgtaaaatgg gttcataatt ttttttaatt gtaacattat tacaagaata
aatgtcaagc

9661 atttatcact attattattt gcatggttcc cataaaatat taccttagaa
tgtaaataac
9721 agcccttcga atttgcagag tgtccaaaaa aagtgttgca ctgatttatt
ttcttcagga
9781 gacatttctt cagtgttgac tatgtgcaag cactctcctg ggtgttgta
aatatagttt
9841 atttactcaa caaatatttg tacctatcaa gagccaggca ctgttgaga
gacaagtgat
9901 aaccaatgag ttaaacagat aaaaacttct gccctttag aacttacatt
ctttcaaga
9961 agtctccata acaatgaata aagaaatagg ctgtcagggtg gtgctgcaag
ccatagcaag
10021 aaatgaaaca agggccatat gtggtagctc atgcctgtaa taccaacact
gggaggccaa

SEQ.ID.NO. 44

KLK-L4 AA

ESSKVLNTNGTSGFLPGGYTCFPHSQPWQAALLVQGRLLCGGVLVHPKWVL
TAAHCLKEGLKVYLKGKHALGRVEAGEQVREVVHSIPHEYYRRSPHLNHDH
DIMLLELQSPVQLTGYIQTLP LSHNNRLTPGTTCTRVSGWGTTTSPQVNYPKTL
QCANIQLRSDEECRQVYPGKITDNMLCAGTKEGGKDSCEGDSGGPLVCNRTL
YGIVSWGDFPCGQPDPRPGVYTRVSRYVLWIRETIRKYETQQQKWLGKGPQ

SEQ.ID.NO. 45

KLK-L4 AA

MWPLALVIASLTALSGGVSQESSKVLNTNGTSGFLPGGYTCFPHSQPWQAA
LLVQGRLLCGGVLVHPKWVLTAHCLKEGLKVYLKGKHALGRVEAGEQVRE
VVHSIPHEYYRRSPHLNHDH DIMLLELQSPVQLTGYIQTLP LSHNNRLTPGTT
CRVSGWGTTTSPQVNYPKTLQCANIQLRSDEECRQVYPGKITDNMLCAGTKE
GGKDSCEGDSGGPLVCNRTLYGIVSWGDFPCGQPDPRPGVYTRVSRYVLWIRE
TIRKYETQQQKWLGKGPQ

SEQ.ID.NO. 46

Table 15

AACTCTACAATGTGCCACA

SEQ.ID.NO. 47

Table 15

TTATTGTGGGCCCTTCAACC

SEQ.ID.NO. 48

Table 15

GGATGGTCCATTTATAGGAC

SEQ.ID.NO. 49

Table 15

AGGCTGCCCTACTAGTGCAA

SEQ.ID.NO. 50

Table 15

ATATTGCCTAGGTGGATGTG

SEQ.ID.NO. 51

Table 15

AAGACTTCAAGGAGCCAAGC

SEQ.ID.NO. 52

Table 15

GACCCTTCACCTCCCAAAAT

SEQ.ID.NO. 53

Table 15

CTAGTGATCGCCTCCCTGAC

SEQ.ID.NO. 54

Table 15

GGTGATCTGCGCCCTGGTCCT

SEQ.ID.NO. 55

Table 15

AGGTGTCCGGTGGAGGTGGCA

SEQ.ID.NO. 56

KLK-L5 na

1 attgaggggg gatccagca ggtccattt gtcagattc ttctgggcct
ttctgtgttg
61 cttttcttcc tetgcaggac acctgtcaca tgaggggtctt caggggaaaa
ggaattctag
121 tgtctgtgac tgcttcaaag gagaagtaag gggagaggag aggaaagcag
gaggagggtg
181 gagagaacct cttgttcttg aggtcttcca atctccttca gctcaaagca
ctcagcatgc
241 tgaagttcca gactctgggc tatcacgttc tgacatgcaa cacaggcaac
accccagctc
301 catccacgtt tctccaaaag cacaggcatg acgtcatatg gtgacaaaca
cccttggtcca
361 aaggaagccc ataggatacg ctaattctag attcaciaat actctagagg
aactcacaca
421 atgggatggg ccagtgtccc acacagagta tgaggcctcc caccttggtt
gaatatcttt
481 ttcttttttt tctttttttt tttttttgag acggagtctc actctgtcac
ccaggctgga
541 gtgcagtggc tcgatctcgg ctcactgcaa cctctgcctc ccaggttcaa
gtgattctcc
601 tgcctcagcc tctggagtag ctggaattac aggtgtccac caccacaact
ggctaatttt
661 tgtattttta gtagagacga ggggtccacca tgttgaccag gcttgtctcg
aactcctggg
721 ctcaagtgat ctgcccacct cggcctagtg ctgggattac agacgtgagt
caccacgccc
781 ggccccacct tggttaaatt tctgaaaatc atttggtaaa gtgaggaccc
ctccagctga
841 gacactgcca ggaaacagct attgagtctc ttagcaccca cagcattaaa
acaaacccaa
901 aacatttttag gcctcgttga gttctggagg caaaatattc ctcatctaca
aattttattt
961 attttatttt ttaataaaaag ttattattat ttttttttat agagagacag
ggtcttgctc
1021 tgtgaccag actagagtgc agtggtgtga ccatggttca ctgcagcctc
cacctcctgg
1081 gctcaagcga tctcccacc tcagcctgcc aagtagctgg gaccacaggt
atgcccctcc
1141 cccaggctaa ctttttttta ctttttggtg agatgaggtc tcaactatgtt
gcccattgctg
1201 gtcttttttt tttttttttt tttttttgag acgggagtgc aggtctggagt
gcccaggctg
1261 gagtgcagtg gcacaatcat aactcactgc agcctcaaac tctgggggtc
aagtgatcct
1321 cccacctcag cctcccacat aactaggact acaggcctgt gtcaccataa
tgcttggtta
1381 atttttttag tttttgttg tagaaacagg gtctcactat gttaccagg
ctggcctcta
1441 actcctggcc tcaatccatc ctccatctc aacctccaa agtgctagga
ttatagccac
1501 gagccacat gcccgcccc atacttatat ttacttgtag tgagaacact
taaaccctac
1561 tcggtcagta attttcaagt acacaatata ttgttactaa ctatatacat
ggtattttta
1621 atttgcata atgtcctta aaatcagcga gcccgctta tttttgtat
tcaattttat
1681 tggatataaa ttccacatca gtaaacctga ttctcttaa aatctacaca
gaaaaaaaaa
1741 aagagagaga ggttgagttg ggtagttgtt ggtatttttg ttttggttc
tttgcttatt

1801 cagttgaggt ttattgtaaa acttgacacc agaaaaagga agaagtggcg
tttttgtgct
1861 gtgagcgtgt gacgtgtgtc cttccagag aaaggacagt catggtgctt
ttttatcctc
1921 tctgccccaa gaaggaaagc tcttaacagc cagcaggagg cttttagggg
accagcgtaa
1981 tcaacgccag tcgcgctgac caatgatgag ttaaagcagt taggtcgttt
ctaagagcaa
2041 atcaaaagct aaggttctgt gattctgaaa atgagacacg gacagagact
ggagaccag
2101 agagaaagtg aaggactaaa agacagtcac aggggtgggag tttgctctcc
tctgttttgt
2161 tctgggtttt tttgtttgtt tgtgcgtctt gtctgaccgc tttcttttt
tttctttttc
2221 tttctttttt tttttttttt ttttgagatg gagtcttgtc ctgccgcca
ggctggagtg
2281 cgggtggcaca atctcggctc actgcaagct ccgcctccca cgttcaaggg
attctcctgc
2341 ctacgcctcc cgagcagctg ggattacagg catgcaccac cacactcagc
taatttttgt
2401 atttttagta gagatggggt ttcaccatat tgaccaggct ggtcttgaac
tcttgcgctc
2461 aagtgacttg cccgcctcgg cctcccaaag tgttgggatt acaggcggtga
gccaccgcgc
2521 ctggccctga ctgcttttct ccttggtttg tttgtcaatc ccccttctc
tgagccgaat
2581 tccctttttg ttctcatttt ctctctctgt cccctctctc tctccttct
tctctcttc
2641 cattctcct agatgaagca aaaactcaga taaaccagca cagaggccag
gtatggtggc
2701 tcacacctgt aatccccgga ctttgggaag ccaaggcagg caggttgctt
gaggccagga
2761 gttcaagacc agcctggccc acatggtgaa acccgtctc tactaaaaat
acaaaaatta
2821 gccggacatg gtggcacgtg cctgtaatcc caggtactca agagggtggag
gttgcaagtga
2881 gcggagatca cagccctgca ctccagcctg ggtgacagag cgagactcca
tctcaaaacg
2941 aaaaacaaaa aacagcacaa agttcccttg tcctgtgact cattctctc
ctctctttct
3001 accatttctc ctccctgtg tctttttttt ttctctctgt gggttttatt
taagcaatag
3061 aagttcttag caaagaaaaa ctttatggaa ttagattgat ccacttcata
tgtacatata
3121 tgaactcagt tcagaaactc tcttctaccc ctgcctgac acctatttgg
aagtctgttc
3181 cttcaactct tcttctcttt ctgggactct ttctagcttg ggcttctgc
ccctcccgtc
3241 cactctcctg ctttcacagc ctctccttcc ccctgcccct cccctgcact
gcatggggat
3301 gggccccagg tgtccaaggt ctccccacce tcctttgtca ctggagtcag
gattagaacc
3361 cagctcccta gtcacctga gtcacagtc ctggggctgc tgacgggctt
gcagaggaga
3421 gagggagtgg ggctgggtct tcccacctg ggtcctttcc tccttcccc
ctccgttttag
3481 ctgtaaagct caattaagtg tgattagctg agaagagttt ctgcagaatt
agagcacgcc
3541 ccaccctgt cttcgtgggc cccttccctt aaccgggaaa ctggatgggc
caggacaaaag

3601 agagttaaga gctttgtcag tggctctgtct ggagcgacag atggaaggaa
agggaccggt
3661 tgagcaacat gacaggtggc tgaggagcca ggtgcagagt ggtagagttg
gctggcggag
3721 tggccagcac atgagaagac aggcaggtag gtggacggag agatagcagc
gacgaggaca
3781 ggccaaacag tgacagccac gtagaggatc tggcagacaa agagacaagg
tgagaaggag
3841 gtaggcgact gccaatgagg gagtgcaca caggggagca ggtagagaga
ggacaagcag
3901 gtcatccctt tggtagcctt caaagagaag cagagagggc agaggtgggg
ggcacaggga
3961 aagggtgacc tctgagattc cccttttccc ccagactttg gaagtgacct
accatggggc
4021 tcagcatctt tttgtcctg tgtgttcttg gtgagttctc ccggagcagg
gagagggcag
4081 gactgcgact ggatccctc acccccatga ggaggcccca ccaccctccc
catctcagct
4141 ctggcccccga gcctgggtgg gaggaggaga ggggctttct ctgtgcctcc
atttacctgc
4201 agctctcagg gtactgtcga cctcgggtctc ccctattttt tgatccctct
tcccttctgt
4261 cctctctga atctctgtct ctccatttcc ctccatgtg taagcatctt
tctccctggg
4321 tgtctttgat gtttcatggg ctttttctat cactgggtct ctctctcttt
ctctctcttt
4381 ctctgtctct tttctctct ctctctctg cctgtttctc tctctcactc
tgtgtgtctc
4441 tccatctctg tatcttttct tctctctct gaccatgcc cctgtctgtc
tccagggtc
4501 agccaggcag ccacaccgaa gattttcaat ggcactgagt gtgggcgtaa
ctcacagccg
4561 tggcagggtg ggtgtttga gggcaccagc ctgcgctgcg ggggtgtcct
tattgaccac
4621 aggtgggtcc tcacagcggc tctctgcagc ggcaggtaag tcccttctctg
gggtgggcga
4681 agggaggact atgggaaggc aagcgtggg ggtaggatca caaggaggag
tgggtgccac
4741 tgggaagaag ctgactctgc aacaagagag tctgaggta gaccaggagt
ggaacttct
4801 tagcagtggg cctgggtggg tgctgggcag ggtgaggtat gttgggtgga
gggccgggga
4861 gggctctgga acctgccctc ctgcctctcc cattcctgca tgtacccttt
ctttctata
4921 tgacatctgc cactcaccac agccattcct tgaccagtc tgggccccgg
gcccagggtc
4981 caccacaagct ctttttcttt ttcttttttt ttttttttg agacagggtc
tcgtctgtc
5041 gccaggctg ctgtgcaatg gcgtgatcac agctcactgc tgtctctgcc
tcccagggtc
5101 aagtgattct cctgccccag cctcctgagt agctgggatt acaggcaccc
gccaccatgc
5161 ccagctaatt tttgtatttt ttgtagagac agggttttgc catgttggtc
aggctggtc
5221 cgaactcctg gcctcaaag acctgcccgt cttggcctcc caaagtgtg
ggattacagg
5281 tgtgagccac tgcaccggc caacatgacc caaactcttt gtgcaacttc
agaatctatg
5341 cctggcacct ctctgggcct cagtagactg atgttctgga attttttct
ttttctttct

5401 tttttttttt ttttggagac agagtcttgc tctttctgtc atccaagctg
gagtgcagtg
5461 atgctatctt ggctcactac agcctcaacc acctgggctc aagtgatcct
cacacctcag
5521 cctcccaagg agctaagact acaggcctgc gccaccacac ctggctaatt
tttaaatttt
5581 tttttagtag acaggggttt gctatgttac ccaggctggt ctcaaactcc
tcagctcaag
5641 caatcttcct gccttgacct cccaaagtgc tgggattaca ggcagtagcc
actgtgcctg
5701 gcctggaact ttttttgtga aaggggagat cagatgcaaa gaaacagaga
ctcagggaga
5761 gagagggcca gcagcaggat gcagagaggc cattcatcaa cccactcgtt
caatcatgaa
5821 cccactcgtc cacgcatgag catggagggc acatgctccg tgccaggcgg
tgggaataag
5881 gcagtgaaca aggtccactg atgtccctgc cttcatgggc ttcaccagcc
gagagaaatca
5941 gaaagagagg cctggcgcgg tggctcacac ctgtaatccc agcactttgg
gaggccgagg
6001 cgggcggtac acttgagggtc aggagtttga gaccagcctg acacacatgg
tgaaacctta
6061 tctctactaa aaatacaaaa attagctggg catggtggca tgcttctgta
atcccagcta
6121 cttgggaggc tgaggcaggt gaattgcttg aacctgggag gtggaggttg
tagtgagcca
6181 agatggtgcc actgcactcc agcctgggag acagagcgag actcggcttt
gaaaaaaaaa
6241 aaaaaaaaaa aaaggagaga gagagacaca gatgcaggga catggttaga
gaaacaggga
6301 acaccaaga tggaaagagg gtgatggagg ttgggaataa gagcctgtaa
gagagactcg
6361 gagaatgaga gttgcgggtg agaggacaga cagtggggg cagaacagtg
gggagcggca
6421 ggagcgctg agtgctcgtg gaggggtgca aggtggggga ctgcgtgct
gccaccgct
6481 cagccgtcgc caccggcagc aggtactggg tgcgcctggg ggaacacagc
ctcagccagc
6541 tcgactggac cgagcagatc cggcacagcg gcttctctgt gacctatccc
ggctacctgg
6601 gagcctcgac gagccacgag cacgacctcc ggctgctgag gctgcgcctg
cccgtccgag
6661 taaccagcag cgttcaacct ctgcccctgc ccaatgactg tgcaaccgct
ggcaccgagt
6721 gccacgtctc aggctggggc atcaccaacc acccagggag taaggggccc
agggccaggg
6781 gtcaggggtc aggatgggta caagtctggg atgcagggcg agaggtcgaa
tcatgacacc
6841 tcagaggaag gatgggtaaa gggtcagggt gtgggatggg acatcaggat
catggttttg
6901 ggtcagagat tatggtggat tggggtcttg ggagccaaag ggggttaaagg
actgggtatg
6961 aagtcaggga tcagaggtca gaggtcagag tgtgtcagag gtcatcacac
tgagagcaaaa
7021 ggcataatata tatatatatg tatgtatagg atatgggcat tgtgggtcat
gggtctgggg
7081 ttagaggtca ccgtagaatt aaggtcatgg gatccagagg ttgtacaatc
tggtcaaaat
7141 ctgaggatgg aaattgggat tctatccaaa atcacatatc tgagattgga
ggatcatagcg

7201 tttggggtgt ggggcccga gtttggggtc atggaggctg gggcccaata
aactaggatc
7261 aggggacact ggcgttgga gcagtgggt ttggaagatg cagagctgag
gttggagggt
7321 aaggtaaaga caggacatg gggtcaggag acagaagata tgagatcaag
ctgggatcat
7381 aaggtaataa gacagaagg caaagatcac agtagctggc attgaagagg
gtcagggtctg
7441 gattcgttgt ctctgacgct ggagagacaa gaaagttctt gagttatgcc
actcaaagtc
7501 aatgtcaaa gatcaaagag accgtcaatc atctggggtc atgattcata
tgaaattaag
7561 tcataaatat gtaacttga ggtttcggga ttgtagtaca ggtcggtgag
gggcaggggt
7621 attgacatgg atgggccaca tccagggaag agggacgtgg cctcaaagt
gggagattta
7681 ggggaccctg cagcacgcat gttctctctc cagaccatt cccggatctg
ctccagtgcc
7741 tcaacctctc catcgtctcc catgccacct gccatggtgt gtatccccgg
agaatcacga
7801 gcaacatggt gtgtgcaggc ggcgtcccgg ggcaggatgc ctgccagggt
agccagtga
7861 ggcagcgtgc gtggtcacca ggacaggaag tgaaggggag gggctggaag
caggagggga
7921 actgatggag gatgaatcag ggaaagggga tgctgcagag agacggggtc
aaaaggaag
7981 ggagaggctg gttacggagg ctcacacctg taatcccagc actttgggag
gccgaggcgg
8041 gcggatcact tgaggtcagg agttcaagac aagcctggcc aacacggtga
gactctgaat
8101 ctactaaaaa taccagaatt agccgggggt ggtggtgcaa gcctgtggcc
ccagctactt
8161 ggaaggctga ggcaggagaa tcgcttgatc ccgggaggcg gaggttgag
tgagctgaga
8221 tcacgccact gcactccagc ctgggcgaca gagccagact ctgtctcaa
acaaaataat
8281 taataataat aataataata ataataataa taatggagga gaggcccagg
ataagggagg
8341 gagagagaca gggagtaaaa gggaggaccg gggaatggag gagggggagg
ggcagggaga
8401 gagagggagg aagggaaacag agaaggaaag atggggcagg gggtacagag
agagacagca
8461 aaacagacgg agaggactgg gagcccagac agggaaccag ctgtttctgg
ggctctaagt
8521 ctttcccata ccactctcca gttggtgctg tcccagactg agagagattt
gaggatggcg
8581 gtctctcccc tcattggtea gggcccagc cattgtcctt gagagaactc
tgtgcttttg
8641 atggagtcct gccaccttc cctgggattg gtcatttttg atggcactct
ctccctcat
8701 tggtcagaac cccaggcatt gtccttgaga gaacctctat ctttatgga
gtcccacct
8761 cctcccctgg gattggcat tgataatagt gttctctctc ctattggte
aggccccag
8821 ccattgtcct tgagagaatg ctgactctt tatgttgtct tgacagcctc
ccctgagatt
8881 ggcattaat gactgtgctc tctctctca ttggtcaggg cccagccat
tgtccttgag
8941 agaacctctg tcctttatgg agttccacce ttcttcctg ggattggccc
ctagagacag

9001 tggtttcttct cttttgggta gccattgcca ttgtcctccg ggaaagtgat
tatactcttt
9061 tgtctaataa ccagacttgg agccctcccc aaggcccagg actgggttga
agggttgggg
9121 aggaaaacag aaataagatg tctcccttgt tcagacagta cttctcttcc
cttccagggt
9181 gattctgggg gccccctggt gtgtggggga gtccttcaag gtctggtgtc
ctgggggtct
9241 gtggggccct gtggacaaga tggcatccct ggagtctaca cctatatattg
caagtatgtg
9301 gactggatcc ggatgatcat gaggaacaac tgacctgttt cctccacctc
cacccccacc
9361 ccttaacttg ggtacccctc tggccctcag agcaccaata tctcctccat
cacttccctc
9421 agctccactc ttgttggcct gggaacttct tggaaacttta actcctgcc
gcccttctaa
9481 gaccacagag cggggtgaga gaagtgtgca atagtctgga ataaatataa
atgaaggagg
9541 ggccatgtct gtccatttga agtccctcatg ctggttgaga ctggaagaag
gactcagcag
9601 ttccctatc tcataggagt agaaacagag ctcaaataag gccaggcaca
gtggctcaca
9661 cctgtaatcc catcactttg ggaagctgag gcagggtgat cacctgaggt
caggaactcg
9721 ggaccagcct ggtcaacata gtgaaacccc aactctacta aaaatgcaaa
aattagccag
9781 gcatggtggc gcatgcctgt aatcccagct actcaggagg ctgagacagg
agaatagcat
9841 gaacccgtga ggcagaggct gcagcgagcc gagattgaac cattacactc
cagcctgggc
9901 gacagagcga gactccatct caaaaacaaa caaacaaaaa acccagtgtc
caaataggat
9961 gagggctctc cctgagtagt tactcagaaa tggagtagaa aaagttactt
ttaataatat
10021 aggccgggtg cagtggccca cgcctgtaat cccagcactt tgggaggccg
aggtgggagg
10081 atggcttgag ctcagatttc gagatcagcc tggcaacaca gtgaaatctt
gtcactacaa
10141 aaacacaaaa aattagctgg gtgtggtggt gcgtgcctgt agtcccagct
acttgggaag
10201 ctgaggtggg aggatcaccg gagccgggga ggtggaggct gcaaagagcc
gagatcatgc
10261 cactgcactc cagcctgggc aataaagtga gaccttgtct caaaaacaaa
aaccagcaa
10321 tataaataag acacatgttt cttcatctgg cataatagaa atagtgccca
gagcttataa
10381 gcttttcaag agtcacaaa agacccgaaa aagaaaaaga aaattgttag
ctccaaaata
10441 ccagatgaaa gctgcaaagt caacatttat gaccatttaa tccaatgtcc
ataaaacgta
10501 gcattctttc cactagccaa ctgcagttta ctttcttgta atgaagcata
cattgtatct
10561 ttaatgtggg acgtggcttt gttctaataa gacgaagggt ggagtgcagg
cttgaaaagc
10621 aggagagctc agcctacgtc ttaaatctc ctgcccaccc cttggattct
gtctccactg
10681 ggactcaaga ggtgaggaga gaccatctcc ccaaagcac tgaagggaaa
ctggaggagg
10741 gagggagtga ggggtgatca taccagcgga ggcacatttg ctgagcccc
ccgagtcctg

10801 ctctttccaa gtggaccctc ctggaagcct gatcccaacc tcccctgcaa
gcaggctctgt
10861 caccceccatc tctcagatga agaaactgag ccttgcaggg gtggagtccc
ttgtcccccac
10921 gtcataaggg tagtcatagt agtaggaaga ggaagcacct aggtttgagg
ccagggctgg
10981 ctgctgtcag aacctaggcc ctcccctgcc ttgctccaca cctggtcagg
ggagagaggg
11041 gaggaaagcc aagggaaggg acctaactga aaacaaacaa gctgggagaa
gcaggaatct
11101 gcgctcgggt tccgcagatg cagaggttga ggtggctgcg ggactggaag
tcatcgggca
11161 gaggtctcac agcagccagt aagtgaacag ctggactcgg gctgcctggg
cggcagggag
11221 aagcgggcag gggaagggtc agcagaggag cgaggcccca gaggagccct
ggggtggagc
11281 acagccaagg gctctgttcc ctttctgga ctgggttcc acaggccctg
acctgcctcc
11341 cccaccctcc ggtcctgccc ctgtgcctgg cagcagcccc acctgtgtga
catcccagca
11401 cccccccct ctccttgcaa aggagaaggg agcggcctag gggaggccag
gggcccacct
11461 gggctggggc tgtggagagg gagggtgctg gacgggagga aaaagagaga
cggagattag
11521 atggaagaag agggatttca agacaaattg ccagagatgc agtcagagag
actgactgag
11581 agacacaaag atagaaggaa ttagagaaag ggccacacag agccagacag
agagagaaga
11641 gtggagatgg agacagggac gaggacagag aaaggcagac agacacatag
ggacagaaag
11701 agaaaaatca cacaaagtca gaattactga atgacagga atgacacata
gaacgagaca
11761 cagattcaga gactcagggc agggaaagga aggctgcaga cagacagaca
gacagagga

SEQ.ID.NO. 57

KLK-L5 AA

LSQAATPKIFNGTECGRNSQPWQVGLFEGTSLRCGGVLIDHRWVLTAAHCSG
SRYWVRLGEHSLSQLDWTEQIRHSGFSVTHPGYLGASTSHEHDLRLRLRLP
VRVTSSVQPLPLPNDCATAGTECHVSGWGITNHPNPFDLLQCLNLSIVSHA
TCHGVYPGRITSNMVCAGGVPGQDACQ

SEQ.ID.NO. 58

KLK-L5 AA – alternatively spliced

MGLSIFLLLCVLGLSQAATPKIFNGTECGRNSQPWQVGLFEGTSLRCGGVLID
HRWVLTAAHCSGRPIPGSAPVPQPLHRLPCHLPWCVSRENHEQHGVCRRRPG
AGCLPG

SEQ.ID.NO. 59

KLK-L5 AA – alternatively spliced

MGLSIFLLLCVLGLSQAATPKIFNGTECGRNSQPWQVGLFEGTSLRCGGVLID
HRWVLTAAHCSGSRYWVRLGEHSLSQLDWTEQIRHSGFSVTHPGYLGASTS
HEHDLRLLRLRLPVRVTSSVQPLPLPNDCATAGTECHVSGWGITNHPRNPFPD
LLQCLNLSIVSHATCHGVYPGRITSNMVCAGGVPGQDACQGDSGGPLVCGG
VLQGLVSWGSVGPCGQDGIPGVYTYICNSTLVGLGTSWNFNSCQPF

SEQ.ID.NO. 60

KLK-L5-AA

MGLSIFLLLCVLGLSQAATPKIFNGTECGRNSQPWQVGLFEGTSLRCGGVLID
HRWVLTAAHCSGSRYWVRLGEHSLSQLDWTEQIRHSGFSVTHPGYLGASTS
HEHDLRLLRLRLPVRVTSSVQPLPLPNDCATAGTECHVSGWGITNHPRNPFPD
LLQCLNLSIVSHATCHGVYPGRITSNMVCAGGVPGQDACQGDSGGPLVCGG
VLQGLVSWGSVGPCGQDGIPGVYTYICKYVDWIRMIMRNN

SEQ.ID.NO. 61

Table 17

TCAGCCAGGCAGCCACACCG

SEQ.ID.NO. 62

Table 17

TTGGTGATGCCCCAGCCTGA

SEQ.ID.NO. 63

Table 17

CCACACCGAAGATTTTCAAT

SEQ.ID.NO. 64

Table 17

GCCCCTCCTTCATTTATA

SEQ.ID.NO. 65

KLK-L6 NA

1 atcgtgtaat caccgccaca tccagtgcaa agctgattcg tcaccacaga
gcagctccct
61 cctgccaccc catccctggg tcccaagaga accctttctt aaaagagggg
gttcttgacg
121 ggtgtggtgg ctcatgcctg taatccttgc actttgggag gccaaggagg
gtggatcatt
181 tgaggtcagg agtttgagac cagactggcc aacatggtga aaccctgtct
ttactaaaaa
241 tacaaaaaaa tgagcggggc atggtggtgg gtgcctatag cccagctac
tcaggaggct
301 gaggcaggag aatcgcttga acccaggagg cagagggtgc agtgagccga
gattgagcca
361 ctgcactcca gccggggcta aagagtgaga ctctgtctca aaaaaaaaaa
aaagaaaaag
421 aaaaaaagaa aaaaaataa aataaataa taaataaaat aaatttaaaa
atttaaaaaat
481 aaagaggggg ttcttgtgtt gatgccgagc ctgaaccaag gcagaggagg
ccgggaaggc
541 ttccaaggc cttcagctca aagcaggagg gcccatagtt aaacagaaac
agttcaggaa
601 tcacagaaag gcacctgggg agagatgggt gtgtggctcc agatgcagg
gccagacag
661 tgcgtcccca ggtgtacaga cagaccagg ccaagctcca gctcaaagag
ccagcctagg
721 ggggtgccga ggtggagggg ggctgagtca ggctgaggcc ggggaacagt
tggggtagcc
781 aaggagggca agcagcctcc tgagtcacca cgtgggtccag gtacggggct
gccagggccc
841 agagacggac acaagcactg ggggaatttaa ggggctaggg gaggggctga
ggagggtagg
901 cctccccca aatgaggatg gaaccccccc aactccagaa cccccctgca
ggctggccag
961 aatccttccc catctcatc actctgtctc tctgtctctc tgccgtctcc
tattttgaat
1021 ttccaacccc gtctgttaag actgtccttc tgtctctgaa tctctgtccc
cttctctttc
1081 tgggtctctc tccctctccc tctgggtctc tgteccctc tctgggtctc
tgctactctc
1141 tttttgcac tccagctctc actttgtctc tgcacctagc agatcccaag
ctgggggaatg
1201 ccagttctgg caccaacctt cctgctccct gctggggcct ctgctcccc
atctctcagg
1261 agtcgaaagt gagaaagcaa ggtgggcagc tctgtctccag gtccaggat
ctcccgccca
1321 cctcctgccc gtcctctatc ccacccctcc tctccatctc tccctggcgc
tgccatctct
1381 catctaggcc tccgtctcct ctgtcattgt ccccatcccc tgtagggtgcc
catccttccc
1441 gtctccctc tgccatcggc ctgctgtctc catcctcttt ctcccaccat
gtcccggtct
1501 ctccacgctc tcatgcccgc actgccttca tcatcatcgc tgttgttctg
tgtgtgtttg
1561 tgggtgagtgc cgcattggtgg gggcgtctcg gcctctctcc tctctctcca
ctgttttctc
1621 tttctgtgtg tctgtttcca ttctatctcc acctctctcc ctccgtcttt
tgcttttcta
1681 tctccacttc tccacacccc tctctccctg cgtctctgtg tctccctctt
cctctgtctt

1741 gtttttttcc caccgtctgc ctcttctgtt cctgtcaca tccaacttcc
accggtttct
1801 ccagctctct cctcagttcc ttctctcatg agcacacctg cctctgtgct
cgtattcctg
1861 gactcctctc tctccactgt catatcttct cattcatttt cccagttctt
ctctgtctct
1921 tgctctcccc ctctctgtca ctctgtctct gtctctctct ttctctctct
ctctctgtgt
1981 ctctctgtct ggctctctct ctgtctctct ctccatctct ctctctctct
ccccccgctc
2041 accctgtctc tgtctctctc tgtctgtgtg tctctctgtc ttctctctc
tccatctctc
2101 tctgtctctc ttctctctc ttctctctc cctctctccc tctcccggtg
actcctctc
2161 tcagtcacac tcttctctcc tctctcagcc cttctgtgcc ctttctctg
acactcccca
2221 ccctggtttc ctgactccac cactagatcc accacctcca gcaactggga
accctccct
2281 gccacccctg ccctgggggc cctcccagg attccttcta gattatagca
tcttccctgg
2341 gcgggttctc atgaacaatt gtggctgctt ttttggccag acaggggagg
gaggggatgg
2401 gatcaggagg tcttggaatg ggaactaggc aataaaaaaa aaaaaatgtc
agaagcaggg
2461 cggcgggagg tgggggcagg gccagctgtc cttaccaggg ataaaaggct
ttgccagtgt
2521 gactaggaag agagacacct cccctccttc cttcatcaag acatcaagga
gggacctgtg
2581 ccctgtctca catcctccca cctgccgccc gcagagcctg caggccccgc
ccccctctc
2641 tctggctcct acctctctgc tgtgtcttca tgtccctgag ggtcttgggc
tctgggtaag
2701 tgcccttgc tgtctctgcc tctcagcccc cggttctgtt gaaggttcct
tctctctcac
2761 tttttctctg catttgacag gacctggccc tcagccccta aaatgttct
cctgtctgaca
2821 gcacttcaag tcctggctat aggtaagaga acggttgggt atgacacaag
ggggtccct
2881 ggagactctg agaagagatg gggatgggtc cttggggccc ctggatgtc
atggtgacct
2941 cataagaaag agcagggagt ggtttggggg tcatggtggg ggaacgtgct
ggaggcctaa
3001 attcctagt gtggaggtgc tagggaattg tggggccggg gagagagggtg
tttataaggt
3061 ctggtgcaaa atacataagg aatcttaggg aactattagg tctgagtgg
gtcatagcag
3121 aaagatcacg gggctctacc tgactgtgtt aggaaagaaa caatgtcaga
aagatgttt
3181 ttgtctcagag ggaagggtga gaaggatgat gggatggcgg gatcgtggca
tgggggtggc
3241 ggatcgtggc atgggtgtgt gaggtggatg ggggcaagtg tggggcaaga
gatggcggat
3301 ccttgggggc ccactgagtg ggaacgttgg ggaggagaca gggaggctct
tgaatgtgt
3361 ggggaaggac tcattggggg gaaatgtggc atatttcgag aagtgtcac
agaaattatg
3421 ggagcataga gctaagggtc gtagatgtag caaggccctg gataagggtg
ccacggcaca
3481 aaataagaga tgctacggag gtgacttggg aggtgagtca gaaagctctc
cgtgctgggg

3541 caataacggg gtcaatattg ggcattgtct accctgggtg ggacagatag
aggcgggcag
3601 tttaggggtt agacaaaaag gaaggggatt tgtcagtttt ggaatcctac
aaacttgttg
3661 agtggagagt gtttgtcat ctactttccc cacccaatcc tgtccactcc
tagccatgac
3721 acagagccaa gaggatgaga acaagataat tggtagccat acgtgcaccc
ggagctccca
3781 gccgtggcag gcggccctgc tggcgggtcc caggcgccgc ttcctctgag
gaggcgccct
3841 gctttcagge cagtgggtca tcaactgtgc tcaactgggc cgcccgtaac
tgacccctc
3901 ccctgtccct gtacctagt aattccagag tctaaagccc tagagctgag
ctgagaacct
3961 ggatctctgt atagaacca atgtagtggc tggctcctgg tttgaggtct
agagaagagc
4021 ctggaacaaa aacacagctc gggatgtggg ctctccata aatctcgaac
tcagcatagg
4081 ttctgaaagc agatgggcag cttggaaccc atggacctgc tgagaaccga
acatctgac
4141 cagtgattct tccagaggcc acacattaca tcgagaccaa gcttagccca
ttccagattg
4201 tgggctgaat tcaggacccc gtctacattc agaaactcag gacactacgt
agaactcaga
4261 gccagttca ggacctgcag tctagccata aatccagaac tagaacgctg
ctcacagctg
4321 gaacatacaa ctctaagaat agaggcaaaa cctggaggct gtttcacacc
caaggtttag
4381 ttcagagtct agtctatagc tccgctatga gcagacttca acccagtggt
tgaatcccag
4441 aatgtggcgg gtgcgggtggc tcatgcctat aatcctagca ctttgggatg
ctgaggcagg
4501 cagatcacct gaggtcagga gttcgagacc agcctgagca acatagagaa
accctgtctc
4561 tactaaaaat gcaaaattag ccaggcatgg tggcacatgc ctgtaatccc
agccactcgg
4621 gaggctgagg caggagaatc acttgaacct gggaggcgga ggttgcatg
agtcaagatc
4681 gcaccattgc actccaggct aggcaacaag agcgaaactc catatcaatc
aatcaatcaa
4741 taaatcccag aatgcagatc ctaatcagaa gccccatata aaacctagac
ccctcctaaa
4801 ttctagatct gaacttaca cccagacccc agccaagagg tcaaaatgcc
tataagccat
4861 atctatgcca taaacaggct agtctagaac ctagagatca aagctcaggc
cagagtctag
4921 aatataaagg ccagaatgca aaccagactc tagaatcttg gatccgggcc
ataacctaga
4981 gtcceaacta gaaccagag cccaacctga ggtcaagggc tagggccaga
gtccagaacc
5041 aagagcccta taatccaata tgaaacagac ctgtagaggc tgggtgcggt
ggctcagcc
5101 tgtaatccca gcactttggg aggctgaggc gggagaatca cttgaactgg
gagttggagg
5161 tcgagagtga gctgagatcg tgccactgca ctccagccta ggtgacagag
cgagactcca
5221 tcacaaaaaa aaaataaata aataaatcaa gtcataatcc aggttcgatc
tagaatcctg
5281 atcttagcat agagtcaaaa gtttaagatg tctagaactc agaaccagg
ctagaaacag

5341 aatggtgcct actccggaat atcagttccg atttagagcc tagactcata
acgcagtttc
5401 gcttaggact caatgcaccg agcccagcac agaccctggc acggagccaa
gctctcccaa
5461 tcatacctt ctcccaagc caggagctgg agcccagccc aagagcggaa
ggagaggcag
5521 ctggggctgg gccagagaa tgccttgcc atggggaagg gcacaggagg
ccaagaatgc
5581 tcggcctgca gttagtgaga agcaggctag acctcgggga agactcgtca
cccggccagg
5641 gaaccgggct ggagggtggg gaggagtctc tggctcagac cctgagcagc
gcttctcttg
5701 ggggtcgtgg ccaggatcct tcaggttgcc ctgggcaagc acaacctgag
gaggtgggag
5761 gccaccagc aggtgctgcg cgtggttcgt caggtgacgc accccaacta
caactcccgg
5821 acccacgaca acgacctcat gctgctgcag ctacagcagc ccgcacggat
cgggagggca
5881 gtcaggccca ttgaggtcac ccaggcctgt gccagccccg ggacctctg
ccgagtgtca
5941 ggctggggaa ctatatccag ccccatcggg gaggactcct gcgtcttgga
aagcagggga
6001 ctgggcctgg gctcctgggt ctccaggagg tggagctggg gggactgggg
ctcctgggtc
6061 tgaggaggga ggggctgggc ctggactcct gggctctgagg gaggagggg
ctgaggcctg
6121 gactcctggg tctcaaggag gaggagctgg gcctggactc atacgtctga
gggaggaggg
6181 gctggagcct ggactcctgg gtctcaagga ggaggggctg ggcctggact
tctgggtctg
6241 agggaggagg ggctggggac ctggactccc gggctctgagg gaggagggac
tgggggtctg
6301 gactcctggg tctgaggagg gaggggctgg gggcctggac tcctgggtct
gaggaggagg
6361 gtgctggggc tggactcctg ggtcggaagg aggaggggct gggggcctgg
acccttgggt
6421 cttatgggag ggtagacca gttataacc tgcatgttcc ccagccagg
taccgcct
6481 ctctgcaatg cgtgaacatc aacatctccc cggatgaggt gtgccagaag
gcctatccta
6541 gaaccatcac gcctggcatg gtctgtgcag gagttcccca gggcgggaag
gactcttctc
6601 aggtaaggcc caggatggga gctgtggtag ggattatttg ggactgggat
ttaagcaaat
6661 gatgtcagga gcatggaagt ctgcagaggt cttcagaaga gagtgaaccg
caggcacaga
6721 gagattccga tagccaggcc accctgcttc ctagccctgt gccccctggg
taatggactc
6781 agagcattca tgctcagtt tcctcatctg tcagggtggga gtaacctct
tagggtagtt
6841 ggtggaatgg gatgaggcag gttggggaaa gatcgagag tggcctctgc
tcatatgggt
6901 ctgggaaagg ctgtgctgag gcttctagaa atcttaatgc atccttgagg
gaggcagaga
6961 tggggaaata gaaaaagaga gacacacaaa tgttctacag ttggagcgaa
cagagagggg
7021 cctggtgaga ttcaagggac aggcagggtc acacagagac agagccagac
ccagcggaga
7081 gggaaggaag tgccccgacc tccggggctg agacctcaga gctggggcag
gactgtgtcc

7141 ctaactgtcc accagtgtct ctgcctgtct ccctgtgtct gcttctcggg
ttctctgtgc
7201 catggtggct ctggctacct gtccatcagt gtctccattt ctgttctctc
ccctcagggt
7261 gactctgggg gacccctggt gtgcagagga cagctccagg gcctcgtgtc
ttgggggaatg
7321 gagcgtgctg ccctgcctgg ctaccccggt gtctacacca acctgtgcaa
gtacagaagc
7381 tggattgagg aaacgatgct ggacaaatga tggctctcac ggtgggatgg
acctcgtcag
7441 ctgcccaggc cctcctctct ctactcagga ccaggagtc caggccccag
ccccctctcc
7501 ctcagaccca ggagtccagg ccccagccc ctctccctc agaccggga
gtccaggccc
7561 ccagcccctc ctccctcaga ccaggagtc caggccccag cccctctctc
ctcagaccg
7621 ggagtccagg ccccagccc ctctccctc agaccagga gtccaggccc
cagtcctctc
7681 tccctcagac ccaggagtcc agggccccag cccctctctc ctcagaccca
ggaatccagg
7741 cccagcccct cctccctcag accaggagc ccagtcctc cagccccctc
tccttgagac
7801 ccaggagtcc agggccagcc cctctccct cagaccagg agccccagtc
ccagcatcc
7861 tgatctttac tccggctctg atctctctct tcccagagca gttgcttcag
gcgtttctc
7921 cccaccaagc cccaccctt gctgtgtcac catcactact caagaccgga
ggcacagagg
7981 gcaggagcac agaccctta aaccggcatt gtattccaaa gacgacaatt
tttaacacgc
8041 ttagtgtctc taaaaaccga ataaataatg acaataaaaa tggaatcatc
ctaaattgta
8101 ttcattcatc catgtgttta ctttttattt tttagacaa ggtcttgctc
agtctcctgg
8161 tgaaatgctg taacgcaatc atagctcact gcaaccgtga cctcctgggc
tccagtgatc
8221 ctcttacc agctcccg gtagctgga ccacaggtc ccgtaccat gcccgtac

SEQ.ID.NO. 66

KLK-L6 AA

MTQSQEDENKIIGGHTCTRSSQPWQAALLAGPRRRFLCGGALLSGQWVITAA
HCGRPILQVALGKHNLRRWEATQQVLRVVRQVTHPNYNSRTHDNDLMLLQL
QQPARIGRAVRPIEVTQACASPGTSCRVSFGWGTISSPIARYPASLQCVNINISPD
EVCQKAYPRITITPGMVCAGVPQGGKDSQGDSSGPLVCRGQLQGLVSWGM
ERCALPGYPGVYTNLCKYRSWIEETMRDK

SEQ.ID.NO. 67

KLK-L6 AA

MFLLLTALQVLAIAMTQSQEDENKIIGGHTCTRSSQPWQAALLA
GPRRRFLCGGALLSGQWVITAAHCGRPILQVALGKHNLRRWEATQQVLRV
RQVTHPNYNSRTHDNDLMLLQLQQPARIGRAVRPIEVTQACASPGTSCRVS
FGWGTISSPIARYPASLQCVNINISPDEVQKAYPRITITPGMVCAGVPQGGKDS

QGDSGGPLVCRGQLQGLVSWGMECALPGYPGVYTNLCKYRSWIEETMRD
K

SEQ.ID.NO. 68

Figure 9

protease

MATAGNPWGWFLGYLILGVAGSLVSGSCSQIINGEDCSPHSQPWQAALVME
NELFCSGVLVHPQWVLSAAHCFQNSYTIGLGLHSLEADQEPGSQMVEASLSV
RHPEYNRPLLANDLMLIKLDES VSESDTIRSISIASQCPTAGNSCLVSGWGLLA
NGRMPTVLQCVNVS VVSEEVCSKLYDPLYHPSMFCAGGGHDQKDSCNGDSG
GPLICNGYLQGLVSFGKAPCGQVGVPGVYTNLCKFTEWIEK

SEQ.ID.NO. 69

Figure 9

EMSP

MATAGNPWGWFLGYLILGVAGSLVSGEMSPSCSQIINGEDCSPHSQPWQAAL
VMENELFCSGVLVHPQWVLSAAHCFQNSYTIGLGLHSLEADQEPGSQMVEAS
LSVRHPEYNRPLLANDLMLIKLDES VSESDTIRSISIASQCPTAGNSCLVSGWG
LLANGRMPTVLQCVNVS VVSEEVCSKLYDPLYHPSMFCAGGGHDQKDSCNG
DSGGPLICNGYLQGLVSFGKAPCGQVGVPGVYTNLCKFTEWIEK 249

SEQ.ID.NO. 70

Figure 9

KLK-L2

MATARPPWMWVLCALITALLGVTEHVLANNDVSCDHPSNTVPSGSNQDLG
AGAGEDARSDDSSRIINGSDCDMHTQPWQAALLRPNQLYCGAVLVHPQW
LLTAAHCRKKVFRVRLGHYSLSPVYESGQQMFQGVKSIPHPGYSHPGHSNDL
MLIKLNRIRPTKDVRPINVSSHCPASGATKCLVSGWGTTKSPQVHFPKVLQCL
NISVLSQKRCEDAYPRQIDDTMFCAGDKAGRDSCQGDSSGGPVVCNGSLQGL
VSWGDPYCARPNRPGVYTNLCKFTKWIQE

SEQ.ID.NO. 71

Figure 9

zyme

MKKLMVVLSLIAAAWAEQNKLVHGGPCDKTSHPYQAALYTSGHLLCGGV

LIHPLWVLTAAHCKKPNLQVFLGKHNLQRRESSQEQQSSVVRAVIHPDYDAAS
HDQDIMLLRLARPAKLSELIQPLPLERDCSANTTSCHILGWGKTADGDFPDTI
QCAYIHLVSREECEHAYPGQITQNMMLCAGDEKYGKDSCQGDSGGPLVCGDH
LRGLVSWGNI PCGSKEKPGVYTNVCRYTNWIQK

SEQ.ID.NO. 72

Figure 9

neuropsin

MGRPRPRAAKTWMFLLLLGGAWAGHSRAQEDKVLGGHECQPHSQPWQAA
LFQGGQQLLCGGVLVGGNWVLTAAHCKKPKYTVRLGDHSLQNKDGPEQEIPV
VQSIPHPCYNSSDVEDHNHDLMLLQLRDQASLGSKVKPISLADHCTQPGQKC
TVSGWGTVTSPRENFDTLNCAEVKIFPQKKCEDAYPGQITDGMVCAGSSKG
ADTCQGDSGGPLVCDGALQGITSWGSDPCGRSDKPGVYTNICRYLDWIKKTL
SPMRILQLILLALATGLVG

SEQ.ID.NO. 73

Figure 9

TLSP

GETRIKGFECKPHSQPWQAALFEKTRLLCGATLIAPRWLLTAAHCLKPRYIV
HLGQHNLQKEEGCEQTRTATESFPHPGFNNSLPNKDHRNDIMLVKMASPVSI
TWAVRPLTLSSRCVTAGTSCGISGWGSTSSPQLRLPHTLRCANITIEHQKCN
AYPGNITDTMVCASVQEGGKDSCQGDSGGPLVCNQSLQGIISWGQDPCAIR
KPGVYTKVCKYVDWIQE

SEQ.ID.NO. 74

Figure 9

PSA

MWVPVVFLLSVTWIGAAPLILSRIVGGWECEKHSQPWQVLVASRGRAVCG
GVLVHPQWVLTAAHCIRNKS VILLGRHSLFHPEDTGQVFQVSHSFHPLYDM
SLLKNRFLRPGDDSSHDLMLLRLSEPAELTDAVKVMDLPTQEPALGTTTCYAS
GWGSIEPEEFLTPKKLQCVDLHVISNDVCAQVHPQKVTKFMLCAGRWTGGK
STCSGDSGGPLVCNGVLQGITSWGSEPCALPERPSLYTKVVHYRKWIKD

SEQ.ID.NO. 75

Figure 9

KLK2

MWDLVLSIALSVGCTGAVPLIQSRIVGGWECEKHSQPWQVAVYSHGWAHCG
GVLVHPQWVLTAAHCLKKNSQVWLGRHNLFEPEDTGQRPVSHSFPHPLYN
MSLLKHQSLRPDEDSSHDLMLLRLSEPAKITDVVKVLGLPTQEPALGTTTCYAS
GWGSIEPEEFLRPRSLQCVSLHLLSNDMCARAYSEKVTEFMLCAGLWTGGKD
TCGGDSGGPLVCNGVLQGITSWGPEPCALPEKPAVYTKVVHYRKWIKD

SEQ.ID.NO. 76

Figure 9

KLK1

MWFLVLCLALSLGGTGAAPPIQSRIVGGWECEQHSQPWQAALYHFSTFQCGG
ILVHRQWVLTAAHCISDNYQLWLGRHNLFDDENTAQFVHVSESFPHPGFNMS
LLENHTRQADEDYSHDLMLLRLTEPADTITDAVKVVELPTEPEVGSTCLASG
WGSIEPENFSFPDDLQCVDLKILPNDECKKAHVQKVTDFMLCVGHLEGGKDT
CVGDSGGPLMCDGVLQGVTSWGYVPCGTPNKPSVAVRVLSYVKWIED

SEQ.ID.NO. 77

Figure 9

trypsinogen

MNPLLLITFVAAALAAPFDDDDKIVGGYNCEENSVPYQVSLNSGYHFCGGSLI
NEQWVVSAGHCYKSRIQVRLGEHNIEVLEGNEQFINAAKIIRHPQYDRKTLNN
DIMLIKLSRAVINARVSTISLPTAPPATGTKCLISGWGNTASSGADYPDELQC
LDAPVLSQAKCEASYPGKITSNMFCVGFLEGGKDSCQGDGGPVVCNGQLQ
GVVSWG-DGCAQKNKPGVYTKVYNYVKWIKN

SEQ.ID.NO. 78

Figure 17, 27, 36, 43

PSA

MWVPVVFLLSVTWIGAAPLILSRIVGGWECEKHSQPWQVLVASRGRAVCG
GVLVHPQWVLTAAHCIRNKSIVLLGRHSLFHPEDTGQVFQVSHSFPHPLYDM
SLLKNRFLRPGDDSSHDLMLLRLSEPAELTDAVKVMDLPTQEPALGTTTCYAS
GWGSIEPEEFLTPKKLQCVDLHVISNDVCAQVHPQKVTKFMLCAGRWTGGK
STCSGDSGGPLVCNGVLQGITSWGSEPCALPERPSLYTKVVHYRKWIKDTIVA
NP

SEQ.ID.NO. 79

Figure 17, 27, 36, 43

KLK2

MWDLVLSIALSVGCTGAVPLIQSRIVGGWECEKHSQPWQVAVYSHGWAHCG
GVLVHPQWVLTAAHCLKKNSQVWLGRHNLFEPEDTGQRPVPSHSFPHPLYN
MSLLKHQSLRPDEDSSHDLMLLRLSEPAKITDVVKVLGLPTQEPALGTTTCYAS
GWGSIEPEEFLRPRSLQCVSLHLLSNDMCARAYSEKVTEFMLCAGLWTGGKD
TCGGDSGGPLVCNGVLQGITSWGPEPCALPEKPAVYTKVVHYRKWIKDTIAA
NP

SEQ.ID.NO. 80

Figure 17, 27, 36, 43

KLK1

MWFLVLCLALSLGGTGAAPPIQSRIVGGWECEQHSQPWQAALYHFSTFQCGG
ILVHRQWVLTAAHCISDNYQLWLGRHNLFDDENTAQFVHVSESFPHPGFNMS
LLENHTRQADEDYSHDLMLLRLTEPADTTTDAVKVVELPTEEPEVGSTCLASG
WGSIEPENFSFPDDLQCVDLKILPNDECKKAHVQKVTDFMLCVGHLEGGKDT
CVGDSGGPLMCDGVLQGVTSWGYVPCGTPNKPSVAVRVLSYVKWIEDTIAE
NS

SEQ.ID.NO. 81

Figure 17, 27, 36, 43

prostase

MATAGNPWGWFLGYLILGVAGSLVSGSCSQINGEDCSPHSQPWQAALVME
NELFCSGVLVHPQWVLSAAHCFQNSYTIGLGLHSLEADQEPGSQMVEASLSV
RHPEYNRPLLANDLMLIKLDESVS-
ESDTIRSISIASQCPTAGNSCLVSGWGLLANG—
RMPTVLQCVNVSVVSEEVCSKLYDPLYHPSMFCAAGGGHDQKDS CNGDSGGP
LICNGYLQGLVSFGKAPCGQVGVPGVYTNLCKFTEWIEKTVQAS

SEQ.ID.NO. 82

Figure 17, 27

trypsinogen

MNPLLLITFVAAALAAPFDDDDKIVGGYNCEENSVPYQVSLNSGYHFCGGSLI
NEQWVVSAGHCYKSRIQVRLGEHNIEVLEGNEQFINAAKIIRHPQYDRKTLNN
DIMLIKLSRAVINARVSTISLPTAPPATGTKCLISGWGNTASSGADYPDELQC
LDAPVLSQAKCEASYPGKITSNMFCVGFLEGGKDS CQGDSSGGPVVCNGQLQ
GVVSWG-DGCAQKNKPGVYTKVYNYVKWIKNTIAANS

SEQ.ID.NO. 83

Figure 17, 27, 36, 43

neuropsin

MGRPRPRAAKTWMFLLLLGGAWAGHSRAQEDKVLGGHECQPHSQPWQAA
LFQGQQLLCGGVLVGGNWVLTAAHCKKPKYTVRLGDHSLQNKDGPEQEIPV
VQSIPHPCYNSSDVEDHNHDLMLLQLRDQASLGSKVKPISLADHCTQPGQKC
TVSGWGTVTSPRENFDPDLNCAEVKIFPQKKCEDAYPGQITDGMVCAGSSKG
ADTCQGDSGGPLVCDGALQGITSWGSDPCGRSDKPGVYTNICRYLDWIKKIIG
SKG

SEQ.ID.NO. 84

Figure 17, 27, 36, 43

zyme

MKKLMVVLSLIAAAWAEQNKLVHGGPCDKTSHPYQAALYTSGHLLCGGV
LIHPLWVLTAAHCKKPNLQVFLGKHNLQRESSQEQQSSVVRVHHPDYDAAS
HDQDIMLLRLARPAKLSELIQPLPLERDCSANTTSCHILGWGKTADGDFPDI
QCA YIHLVSREECEHAYPGQITQNMCLCAGDEKYGKDSCQGDSSGGPLVCGDH
LRGLVSWGNI PCGSKEKPGVYTNVCRYTNWIQKTIQAK

SEQ.ID.NO. 85

Figure 27

EMSP

MATAGNPWGWFLGYLILGVAGSLVSGEMSPSCSQIINGEDCSPHSQPWQAAL
VMENELFCSGVLVHPQWVLSAAHCFQNSYTIGLGLHSLEADQEPGSQMVEAS
LSVRHPEYNRPLLANDLMLIKLDES VSESDTIRSISIASQCPTAGNSCLVSGWG
LLANGRMPTVLQCVNVS VVSEEVCSKLYDPLYHPSMFCAGGGHDQKDSCNG
DSGGPLICNGYLQGLVSFGKAPCGQVGVPGVYTNLCKFTEWIEKTVQAS

SEQ.ID.NO. 86

Figure 27

TLSP

MRI-LQLILLALATGLVGGETRIIKGFECKPHSQPWQAALFEKTRLLC
GATLIAPRWLLTAAHCLKPRYIVHLGQHNQKEEGCEQTRTATESFPHPGFNN
SLPNKDHRNDIMLVKMASPV SITWAVRPLTLSSRCVTAGTSC LISGWGSTSSP
QLRLPHTLRCANITIEHQKCENAYPGNITDTMVCASVQEGGKDSCQGDSSGGP
LVCNQSLQGIISWGQDPCAITRKPGVYTKVCKYVDWIQETMKNN

SEQ.ID.NO. 87

Figure 27

HSCEE

MARSLLLPLQILLLSLALETAGEEAQGDKIIDGAPCARGSHPWQVALLSGNQL
HCHSCCEGGVLVNERWVLTAAHCKMNEYTVHLGSDTLGDRRAQRIKASKSF
RHPGYSTQTHVNDLMLVKLNSQARLSSMVKKVRLPSRCEPPGTTCTVSGWG
TTTSPDVTFPDLMCVDVKLISPQDCTKVYKDLENSMLCAGIPDSKKNACNG
DSGGPLVCRGTLQGLVS WGTFFCGQPNDPGVYTQVCKFTKWINDTMKKHR

SEQ.ID.NO. 88

Figure 27

NES1

MRAPHLHLSAASGARALAKLLPLLMAQLWAAEAALLPQNDTRLDPEAYGAP
CARG SQPWQVSLFNGLSFH CAGVLVDQSWVLTAAHCGNKPLWARVGDDH
LL-LLQG-EQLRRTT RSVVHPKYHQGSGPI LPRRTDEHDLML LKLARPVV-
PGPRVR ALQLPYR-CAQPGDQ CQVAGWGTTAARRVK YNKGLTCSSITLSP
KECEVFYPGVVTNNM ICAGLDR-GQDPCQS DSGGPLVCDETLQGI LSWG-
VYPCGSAQHPAVYTQICKYMSWINK VIRSN